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Finances on the Rebound

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AGRICULTURAL OUTLOOK





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News of Farm Lenders, Irrigation Trends, Food Price Outlook

he new Administration proposal for the 1990 farm bill would give farmers much greater flexibility in what they may plant on commodity program acreage. The proposal would let farmers shift acreage among crops in response to market signals.

For an example of how the changes would work, take a farmer with 300 acres of corn base, with a 10-percent Acreage Reduction Program (ARP) requirement in effect. Under the flexibility proposal, the producer would set aside 30 ARP acres, as before, but then could plant the other 270 acres to any combination of program crops and oil-seeds—instead of just to corn. And the farmer would still collect deficiency payments as if the acreage had been planted to corn.

The small size of the increase in winter wheat seedings for harvest this summer—only 3 percent—caught many analysts by surprise. Stronger prices, a lower ARP, and increased program flexibility were behind the upbeat expectations. To boost plantings, USDA announced last September that participating farmers could plant up to 105 percent of their wheat base, although for every acre planted over 95 percent, the area used to compute deficiency payments would drop by 1 acre.

Wheat farmers' reactions may have been muted for several reasons: they may have been reluctant to lose deficiency payments or acreage in fallow rotation, or they may have been constrained by the amount of wheat base they had idled under the Conservation Reserve Program. Dry weather, too, may have held down the size of the increase. Finally, producers may have learned about the 105-percent modification too late to alter their seeding plans.

Based on analysis of data from the 1987 Census of Agriculture, USDA has recently increased its estimates of



national farmland values. Average values in February 1989 now are estimated to have been \$667 an acre, higher than the earlier estimate of \$597. The revisions go back to 1984, and show that inflation-adjusted values bottomed out in 1987, instead of in 1988, and have increased more since the trough than earlier believed.

U.S. farmers continue to irrigate more land and may irrigate record areas in the early 1990's, if acreage idled by the ARP's continues to drop. About 12 percent of the year-to-year changes in annual ARP area show up as changes in irrigated area. With the easing of the rice, wheat, and cotton ARP's, and the continuing trend toward a higher proportion of crops being irrigated, irrigated area in 1990 likely will be about 1 million acres above 1989's estimated 50.4 million.

Farm lending institutions continued to rebound through mid-1989, albeit at a slower pace than in the past 2 years. The profit picture for the Farm Credit System and agricultural commercial banks brightened, and dud loans held by FmHA fell

for the first time in the 1980's. Commercial banks are gaining market share at the expense of the FCS and FmHA, as financial strength returns and excess supplies of credit develop.

Food prices in 1990 are expected to rise 3 to 5 percent. The forecast reflects the impact of the Christmas freeze in Florida and Texas on fruit and vegetables, as well as the effects of an expected drop in pork production. Nevertheless, ample supplies of most foods this year will help keep food price rises below 1989's 5.8-percent increase.

U.S. family farmers are emerging from the financial difficulties of the mid-1980's. While average household income for farm operators lagged behind that of all U.S. households during the early 1980's, the decade closed with farm households ahead of their nonfarm counterparts.

Recent USDA research shows that raising the ARP for feed grains from a theoretical 5 percent up to 40 percent would cut government outlays by \$4.7 billion and reduce net farm income by \$2.8 billion. The research indicates the hike would cut feed grain output only about 5 percent.

Research studies show that if current GATT negotiations led to totally free trade in the industrial market economies, worldwide meat production would not change significantly, since increases in some countries would offset declines in others.

In the U.S., meat output would expand in response to slightly higher prices caused by greater domestic and export demand. Beef output would rise in Australia, Brazil, and Argentina, while pork production would go up in South Korea and Taiwan. Farmers in Thailand and Brazil would raise and export more poultry. Less meat would be produced and more imported in Japan and the EC.

Flexibility Is The New Watchword

In the early and mid-1980's, U.S. crop stocks grew to unprecedented levels. Faced with problems of oversupply, Congress shaped the 1985 farm bill to support farm income with direct payments tied to restricting acreage planted.

Now, after several years of uneven global weather and rapidly changing market conditions, stocks of some crops are at historic lows relative to use. Operating in such a volatile environment, U.S. farmers would benefit from having more flexibility when they decide what and how much to plant.

In the new farm bill, the Administration is proposing to give farmers participating in the government commodity programs more freedom to choose what to grow, while at the same time preserving the federal safety net for farm incomes. Farmers would be better able to respond to market signals, cut costs, and follow more environmentally sound land management strategies.

Markets Would Govern Plantings

In order to take full advantage of the current programs' benefits, farmers often have strong incentives not to change their crop mixes.

For example, even though cash market returns to growing soybeans have been high relative to corn, farmers' responses have been muted, because switching to soybeans (a crop not covered by deficiency payments) would mean giving up corn base acres as well as deficiency payments. Under current law, those who did switch could not then switch those acres back into the corn program.

Under the Administration's proposal, each farm would be assigned a Normal Crop Acreage (NCA), defined as the sum

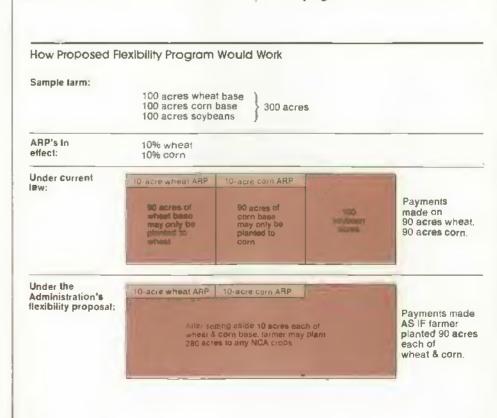


of the farm's acreage bases of program crops (wheat, feed grains, cotton, and rice) plus historic oilseed acreage (soybeans, sunflower, and rapeseed). Acreage Reduction Program requirements (ARP's), as a percent of the commodity-specific bases, would be set according to triggers designed to stabilize stocks relative to demand.

So, a farmer with 100 acres of corn base, 100 of wheat base, and 100 of the new oilseed base would first set aside 20 acres if the corn and wheat ARP's were each 10 percent. On the remaining 280 acres, the farmer could grow any program or oilseed crop and still collect deficiency payments as if the permitted base acres had been planted to wheat and corn. And, base history, which is used to calculate future eligibility for benefits, would be unaffected.

Moreover, any conserving-use crop, such as clover or alfalfa, also could be grown on program cropland without a loss of deficiency payments so long as it was not harvested. Farmers in addition could grow certain nonprogram alternative crops on base acres, but they would give up deficiency payments for those acres.

Producers would be able to grow and harvest the program crop, conserving crops, and industrial crops on the ARP acreage as well, but would forego deficiency payments on an acre-for-acre basis. These new features expand on the flexibility provisions offered as part of the 1990 wheat program.





For all farm products *Calendar quarters Future quarters are forecasts for livestock, corn, and cash receipts *Retail weight *Seasonally adjusted annual rate *Impec.-Feb.: Impac.-May: Impune-Aug.: IVmSept.-Nov. *Cash axpenses plus not cash income equals gross cash income Finite cash.

1990 Wheat Flexed a Bit

Farmers seeding winter wheat last fall were granted some planting flexibility, but not nearly as much as the Administration is proposing for the new farm bill.

In mid-September, the Secretary of Agriculture announced that participating farmers could plant up to 105 percent of their wheat base acres to boost 1990 supplies. But for every acre of wheat planted in excess of 95 percent of the base, the acreage used to compute deficiency payments would be cut by 1 acre.

Under the new proposal, the flexibility to plant up to 105 percent of base would be retained for the Secretary to offer if supplies were tight. But if wheat markets were tight, farmers could expand wheat plantings on base acres of, for example, corn without losing corn base or corn deficiency payments, or being pushed to plant on idled land.

The increased flexibility offered last fall for the winter wheat crop, coupled with strong prices and a lower ARP, did not boost plantings as much as analysts expected—planted area rose only 3 percent from a year earlier. Plantings in Kansas, the major winter-wheat state, showed no increase (see the Field Crops Overview).

Farmers may have been reluctant to lose deficiency payments or acreage in fallow rotation, or their plantable area may have been constrained by the amount of wheat base they had idled under the Conservation Reserve Program (see the Resources department). Much of the CRP land in Kansas is wheat base.

Dry soil conditions also may have limited the acreage increase in some areas. Finally, farmers may have learned about the program's modifications too late to after their planting intentions.

In any case, the relatively small wheat response to the 105-percent offer should not be taken as an indication that farmers would not respond more if the Administration's new proposal were adopted. The 105-percent provision is just a small part of the new flexibility. Com farmers in Indiana this year could not plant wheat on com base and still collect deficiency payments as they would be able to under the new proposal.

Challenges Ahead

Some farmers could face more challenges if the Administration's proposal were adopted. For example, some soybean farmers who lacked wheat feed grain, rice, or cotton base might experience stiffer competition as more producers switched to soybeans in years when soybean prospects appeared especially bright. The competition would result because there is no target-price deficiency-payment mechanism for soybeans, and none is being proposed. But some traditional soybean growers might switch to other crops in relatively tight supply, and expect a reasonable return from them.

To preclude the return of burdensome stocks, the Administration's proposal would allow USDA to exclude any of the traditional program crops from the NCA and handle them individually with a cropspecific acreage reduction program.

The Administration's proposal will be one of many as the debate over the new farm bill moves into high gear. The final bill is months away, although some legislation is likely for the next crop year.

Still, there is widespread interest in providing farmers with a larger array of choices regarding the crops they grow. This would encourage better use of the nation's land, allowing farmers to specialize in what they grow best. U.S. farmers should then be more competitive in international markets. [Greg Gajewski (202) 786-3313 and Ed Allen (202) 786-1840]

Livestock, Dairy, & Poultry Overview

Greater U.S. beef and poultry meat exports are expected in 1990, but net pork imports may rise. The size of the U.S. cattle herd likely will be little changed and beef prices may remain strong. Lower slaughter numbers than in 1989 could give hog producers the highest net returns since 1987.

Expanded U.S. production of both turkeys and broilers will lower prices this year. Total U.S. egg production for 1990 is forecast up. Both international prices and export markets for nonfat dry milk are weaker because of growing EC export supplies. U.S. government purchases of nonfat dry milk under the support program have started up again.

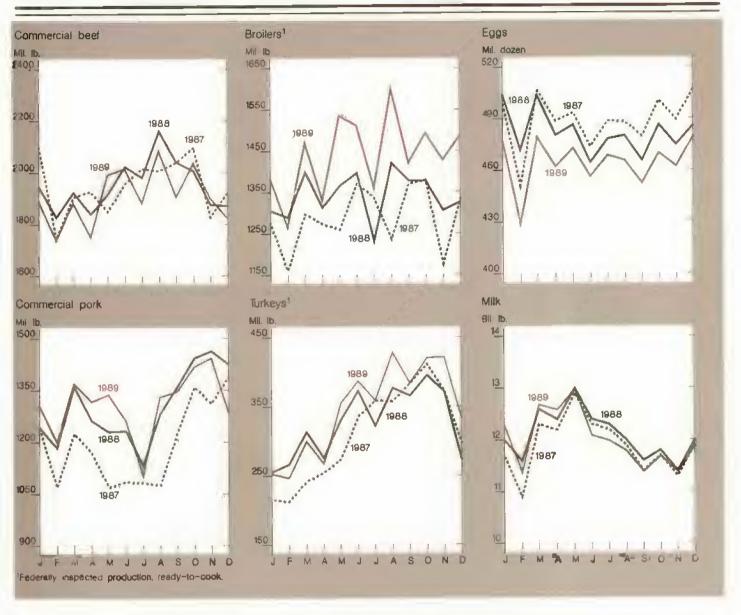
Meat Exports To Rise

U.S. beef and poultry meat exports likely will increase 8 percent in 1990, while imports are expected to be essentially unchanged. Larger beef exports probably will partially offset a 2-percent increase in production, and help support beef prices.

Increased poultry exports will slow price declines that are probable because of rapidly growing supplies. Broiler exports are expected to remain strong, likely setting a record. Japanese and other Asian poultry markets are expanding, and new markets are opening up in the Soviet Union and Eastern Europe. An expected 8-percent increase in net imports of pork will not be a significant factor in the expected higher domestic pork prices.

Large gains in high-quality beef exports to Japan will be responsible for most of the increased U.S. trade. U.S. beef imports are likely to fall because of reduced output in New Zealand—as pro-

Production of Livestock and Products



ducers there recover from last year's drought—and because of greater competition from Japan for Australian exports.

Rising competition in the Japanese pork market from Taiwan and Denmark, coupled with less purchases by Mexico and higher domestic U.S. hog prices, should lower U.S. pork exports slightly.

Beef Cattle Herd Little Changed

The cattle inventory in early January showed only a very slight increase in the beef herd. Positive cow-calf returns above cash expenses since 1986 have partially overridden the impact of drought in many areas from 1988 through early 1990.

Cattle and calf numbers were up 0.2 percent to 99.3 million head. The number of beef cows and heifers that had calved gained 1 percent, the second year of lackluster expansion. However, the number of heifers being retained for possible beef cow replacement remained in the 5.2-5.6 million range which has persisted since 1985.

The supply of feeder cattle outside feedlots was down 1 percent from a year earlier. Yearlings were up 6 percent, while calves were down 5 percent. The 1989 calf crop was about 1 percent smaller than a year earlier, but greater feeder

Agricultural Economy

steer imports from Mexico will help maintain supplies in 1990.

Relatively high fourth-quarter placements of cattle on feed in 1989 more than offset lower second- and third-quarter placements. Much of the early movement into feedlots last fall was due to dry conditions in the winter wheat areas and a lack of forage in the Great Plains; similar problems had caused record first-quarter placements in 1989. Dry weather this January and poor grazing prospects resulted in continued large placements in the 7 monthly reporting states. Consequently, feedlot placements later this quarter may be well below the large year-earlier levels.

Fed cattle marketings likely will remain below a year earlier until late winter because of lower feedlot placements last summer. Marketings in the 7 states in January were down 3 percent from a year before. However, the large placements during last fall likely are being marketed late this winter, probably resulting in higher marketings through early summer.

Even with reduced placements expected this winter, marketings may decline seasonally, but they will remain above 1989 through fall 1990. Nonfed slaughter increased last fall because of drought, but probably will decline in 1990 if weather is normal.

Feeder cattle prices will remain in the mid-\$80's per cwt for yearling steers in the first quarter as supplies outside of feedlots remain adequate. Fed cattle prices at Omaha may continue in the upper \$70's per cwt through late winter, but drop to the low-to-middle \$70's in the spring as fed marketings increase from a year earlier.

Wholesale prices are expected to follow slaughter cattle prices. Boxed beef cutout prices for 550-700 pound Choice carcasses may remain in the low \$120's per cwt. The Choice beef retail price set a record high of \$2.74 per pound in

December, typically a month of low beef demand. The retail price for Choice beef will continue strong through the first quarter of 1990 despite beef price features in February, the national meat month.

Hog Returns Highest Since '87

This spring, hog producers could see the strongest market and receive the highest net returns since 1987. Returns have been on the upswing since last summer, and could rise further during the second quarter as hog prices approach their seasonal peak.

Barrow and gilt prices may reach the middle to upper \$50's per cwt before the end of June, the highest in nearly 3 years. So far, prices in the first quarter have mostly been in the high \$40's.

A relatively low rate of hog slaughter this spring is expected to support prices. Based on the size of last fail's pig crop, second-quarter slaughter could be down 7 percent from a year earlier, the smallest for the spring quarter since 1987. Most hogs reach market weight at 5-7 months, so pigs farrowed in the fall usually supply the bulk of second-quarter marketings.

The reduced supply of market hogs this spring could create difficulties for the packing industry. Last year, while hog producers were paring herds, pork packers were expanding their slaughter capacity.

This situation caused the spread between hog prices and fresh pork prices to narrow during 1989, and packer margins likely will narrow further through the first half of 1990.

More Output Cuts Poultry Prices

Broiler production likely will increase about 7 percent in 1990. First-quarter output is estimated to grow 8 percent, compared with only 3 percent in first-

quarter 1989. A bigger hatchery supply flock indicates that producers will continue to expand through the rest of 1990.

As a result, wholesale and retail prices will decline considerably in 1990. The 12-city wholesale composite broiler price is forecast to average 49-53 cents per pound for the first quarter, down from 59.4 last year.

The annual broiler price is expected to average 49-55 cents, compared with 59 cents last year. First-quarter 1990 retail prices probably will run about 7 percent lower than in 1989.

Turkey production may climb 18 percent during the first quarter over a year earlier, followed by 8-9 percent growth in the second quarter. Poult placements in December were up 6 percent from a year before. This is the smallest increase in recent months, and likely shows that producers expect softer prices. Overall, production for 1990 is forecast up 5-6 percent from 1989.

Wholesale turkey prices have dropped since December and producer returns are currently below break-even. However, lower feed costs this year have compensated for some of the price weakness.

With large output coming, Eastern region hen prices during the first quarter are forecast to be 51-55 cents per pound, compared with 62.4 a year carlier. Retail prices also are expected to remain lower than a year ago. Per capita turkey consumption may increase to around 17.5 pounds in 1990, up from 16.9 in 1989.

Egg Output Greater

Total egg production in 1990 is projected to gain about 2 percent, in contrast to a 3-percent drop in 1989. The largest increases likely will occur during the second half, as producers expand in response to 1989's strong net returns. Egg output during the first quarter is expected to gain by about 1 percent, compared with a 6-percent drop in first-quarter 1989.

The New York wholesale price for large eggs averaged 92 cents per dozen in January, down from \$1.00 last December, but well above the 72 cents of a year earlier. However, prices had slipped to the high 70's range by mid-February. They are expected to average 70-76 cents for the year, compared with 82 last year.

World Nonfat Dry Milk Prices Weaken

International prices of nonfat dry milk in mid-February were \$1,720 per metric ton, down about \$200 from the second half of 1989 and essentially below the U.S. support price.

International prices slipped because of growing EC export supplies. EC consumers are using less dairy products, leaving more butter and nonfat dry milk available for export. Also, whey products increasingly have been substituted for nonfat dry milk in EC veal rations.

If EC domestic use remains weak, the EC probably will have to choose between allowing intervention stocks to grow or increasing export subsidies. Larger export subsidies would push international prices well below U.S. prices, while current EC subsidies probably would generate prices near current U.S. levels.

Softer international prices for nonfat dry milk now seem likely to persist. Small changes in EC conditions can substantially affect international price, because their domestic market is much larger than the international market.

If international prices do not recover, U.S. commercial exports this year might be insignificant. In turn, the government would buy substantial amounts of nonfat dry milk and cheese, but less butter.

However, if international prices recover slightly, export demand for nonfat dry milk would keep U.S. markets tight for products made from either skim or whole milk. Wholesale prices of nonfat dry milk and cheese and farm milk prices probably would stay above support levels throughout the year.

U.S. commercial exports of nonfat dry milk slowed in early 1990, after being key in dairy markets for 2 years. But even if international prices recoup, exports will be much smaller than 1989's 350 million pounds. Nonfat dry milk producers are not likely to overcommit to the export market as they did in 1989. Powder exports in 1990 are not likely to exceed half the 1989 total.

In January, the U.S. government made small purchases of nonfat dry milk, the first price-support removals in 18 months. If purchases are significant for all three products, spring prices of manufacturing grade milk will be near the support prices of \$10.10 per cwt. By late spring, milk prices could fall more than \$1 from a year earlier and almost \$5 from the December peak.

For further information, contact: Ken Nelson and Mark Weimar, coordinators; Fred White, cattle; Kevin Bost, hogs; Lee Christensen and Larry Witucki, broilers, turkeys, and eggs; and Jim Miller, dairy. All are at (202) 786-1285.

Field Crops Overview

It appears that the U.S. corn situation is tighter than analysts had expected: 1989 output was less than thought and use was greater. And, the jump in winter wheat planted for harvest in 1990 was only about half of industry expectations. Plantings rose only 3 percent from a year earlier.

Unfavorable weather over much of the winter wheat area has raised concerns about the size of the crop. Futures prices have been extremely sensitive to daily and weekly weather reports.

Corn Crop Tighter

USDA estimates that 7,527 million bushels of corn were harvested last fall

(1989/90 crop year), down about 60 million from the December estimate. Nonetheless, the crop is more than 50 percent larger than the 1988/89 drought-reduced outturn.

At this time of year, a decline in the estimate is relatively unusual, and trade expectations were leaning toward an increase of about 80 million bushels. Apparently, the uneven weather last summer cut yields more than observers realized.

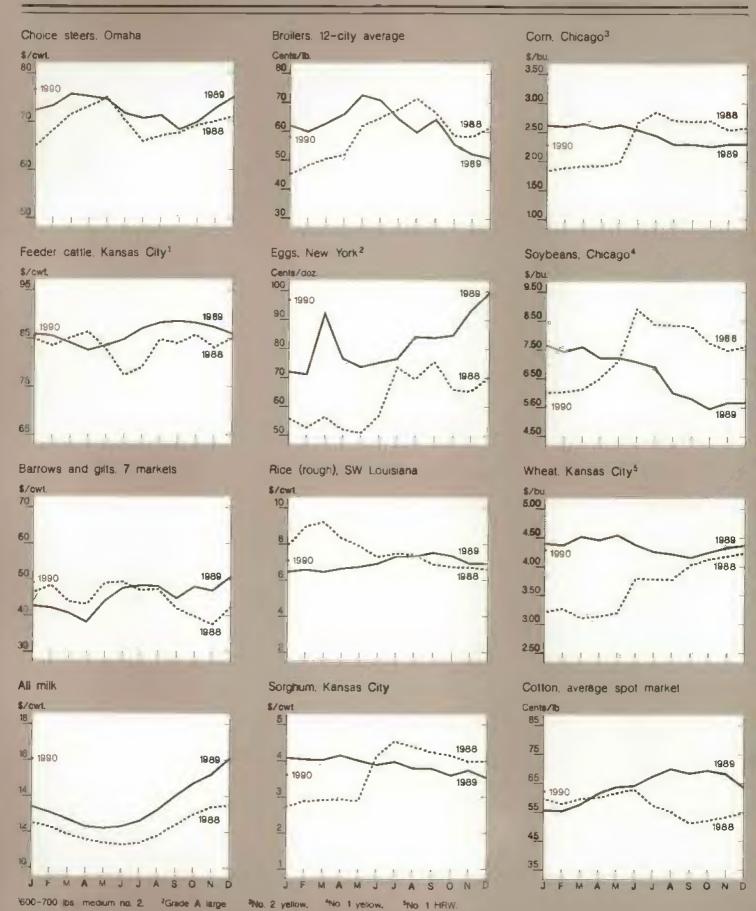
Compounding the tight supplies, the corn stocks report released in January indicated larger-than-expected disappearance in September-November. This prompted a 230-million-bushel increase in total use estimates for 1989/90, the bulk of which was placed in the feed and residual category.

Foreign coarse grain production is expected to be about the same as a year earlier. And, for the third consecutive year, consumption is exceeding production, so stocks are likely to fall again.

World coarse grain trade is proving to be larger than expected, in part because of tight wheat supplies and the high price of wheat relative to coarse grains. With foreign coarse grain exports expected to go up only slightly, most of the rise in demand will be met by larger U.S. exports.

The Australian barley crop just harvested is the largest in 4 years and will generate strong competition in the international barley markets during the next few months. However, the market still will be dominated by the EC, whose exports are forecast to set another record. U.S. barley exports are running above last year, bolstered by recent Export Enhancement Program sales to North African and Middle Eastern markets.

U.S. corn exports are forecast to rise 12 percent above last season, the highest since 1980/81 and the third largest ever. Higher demand is expected from Korca, Mexico, and Eastern Europe. Food aid



will boost both U.S. and EC exports to Eastern Europe.

Deliveries of the big Soviet corn purchases made last fall have been delayed somewhat; the USSR's rail system cannot move enough corn to keep up, and Soviet port congestion could continue with the arrival of recent large wheat purchases.

Winter Wheat Comes Up Short

U.S. winter wheat farmers have seeded only about 57 million acres for harvest in 1990. The lack of enthusiasm for planting additional land was not evenly distributed across the winter wheat belt. Kansas, the nation's largest producer, showed no area growth over a year earlier.

The Kansas acreage likely reflects recent diversions into the Conservation Reserve Program, farmers' reluctance to take advantage of the 105-percent provision in the modified wheat program offered last September, and some producers' decisions to continue to fallow some wheat area instead of planting it continuously. Dry weather also may have limited planting increases in places.

Texas reported a winter wheat area decline. However, Ohio and Illinois likely increased their planted areas this year.

The expanded wheat area in parts of the Midwest will have to come at the expense of other crops. It is too early to forecast the extent of this shift. However, more wheat probably will not mean less com, because com programs are attractive. The extra wheat may displace some soybeans and hay.

Weather worries continue across the winter wheat belt even though the weather improved in January; temperatures and precipitation were above average. Nonetheless, the earlier dry and cold weather stressed the crop on the Texas High Plains.

High temperatures in the fall reduced the protective snow cover, and left the crop susceptible to above-normal winterkill and other freeze damage. These conditions existed throughout the central and northern Great Plains, with the exception of Montana.

In addition, much of the belt has had below-normal precipitation. Across the hard red winter wheat areas of the central and southern Plains, precipitation has been so slight that the October-December period ranks as the sixth driest since the late 1800's. Last November was the driest on record in Kansas.

Foreign wheat production is record high. China's grain output reached a record 407 million tons; wheat and rice accounted for most of the increase. Soviet production is also up. Despite higher production, the Soviet Union is forecast to import 14 million tons, 2 million higher than earlier expectations.

The large foreign crop is likely to lead to stiffer export competition in the second half of 1989/90. The 1989/90 Australian and Argentine crops are now available for export, and the pace of Canadian exports is expected to pick up in the next few months. These developments, together with tight stocks, may lead to a 6-percent drop in U.S. wheat exports.

Rice ARP Cut

Domestic rice production for 1989/90 is forecast to be 154.5 million cwt, around 5 million cwt below the 1988/89 outturn. Favorable conditions have boosted crop yields to 5,749 pounds per acre—partially offsetting the 200,000-acre drop in both the planted and the harvested area estimates.

Because of the slightly smaller crop, imports are forecast up from 4.2 million cwt in 1988/89 to 5.0 million this year. However, beginning stocks are at a low 26.7 million cwt, bringing total supplies for 1989/90 to 186 million, about the same as 1987/88 and about 5 percent below last year.

In recent months, the forecast of rice ending stocks for 1989/90 has fallen from almost 24 million cwt to 19 million. This reduction was based on both lower estimated U.S. production (falling 2 million cwt) and increased forecast use (exports rising almost 3 million cwt). The export estimate was boosted because of heavy trading activity.

Reflecting expectations of diminishing stocks, the Secretary of Agriculture in late January announced that the 1990 ARP for rice would be 20 percent. This is down from the 22.5 percent that had been announced earlier in the month.

Soybean Crop To Flood World Market

U.S. soybean prices have fallen as South American production prospects have continued to be bright. The U.S. market is characterized by strong domestic demand for soybean meal and oil and weaker export prospects for both.

Low U.S. soybean meal prices, combined with profitable livestock feeding, have boosted meal use in recent months. U.S. soybean oil prices are competitive in the domestic market, and soybean oil is now recapturing domestic market share lost to competing oils.

World soybean production is climbing substantially in 1989/90 as U.S. and Argentine production rebounds from drought conditions. Record South American production is expected for the third consecutive year.

World demand is up as well, raising trade. But, expected gains in U.S. exports are being restrained by South American competition. U.S. soybean exports are forecast up about 12 percent, but exports of meal and oil are expected to be off by 9 and 13 percent. Improved EC crush margins led the EC to favor bean imports over meal this season.

	1987/88	1988/89	1989/9
ORLD		Hillion metric tons	
Wheat Production	502	501	536
Use	502 531	531	538
Exports	105	.97	98
Ending stocks	147	118	116
Corn			
Production	448	399	460
Use Exports	4 63 57	457	476
Ending Stocks	146	64 87	71 72
	140	a,	12
Soybeans	44.		
Production Use	104 103	95	107
Exports	30	7/ 23	104 26
Ending stocks	30 20	95 97 23 18	20
ITED STATES			
Wheat			
Production	57	49	55
Use	30	27	28
Exports	43	39	35
Ending stocks	34	19	12
Corn			
Production	181	125	191
USe	153	133	145
Exports Ending Stocks	44 108	52 49	58 38
LIMITING PLOCKS	100	47	30
Soybeans			
Production	53	42	52 32
Use Exports	53 35 22 8	31 14	32
Ending Stocks	R	15	16

Cotton Market Tightening

Already low, the world stocks-to-use ratio for cotton is expected to fall by the end of 1989/90 to the lowest since World War II. Both foreign output and U.S. production are off, but demand continues to be vigorous.

This year's lower output in China and the Soviet Union, coupled with the rapidly growing textile industry in Pakistan, accounts for the decline in both stocks and exports. With less competition from these major exporters, the U.S. will see both exports and export market share significantly higher in 1989/90.

Because of the tight supplies, production is likely to expand sharply in 1990/91, particularly in the Northern Hemisphere. U.S. area likely will jump because the ARP requirement was cut from 25 to 12.5 percent.

China and Mexico also plan to enlarge area in 1990/91. The Soviet Union and Pakistan probably will boost yields again. But, tougher export competition probably will develop, driving the U.S. export share closer to recent historic levels in 1990/91. [Jim Cole (202) 786-1840 and Carolyn Whitton (202) 786-1826]

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Specialty Crops Overview

The December freeze cut Florida's 1989/90 orange output by 23 percent. Retail prices of fresh oranges, mainly produced in California, are not expected to surge, but wholesale prices of concentrate have already moved up 60 percent since December. The grapefruit crop was also damaged—f.o.b. prices for fresh grapefruit rose 28 percent in January.

Fresh tomatoes, sweet corn, and ornamental crops were seriously damaged by the cold, and prices shat up in January and February. While vegetable shipments are returning to normal now, the impact on the ornamental market will ripple through the Easter season.

The freeze and the unexpectedly strong effect of dry weather last summer and fall pushed sugar production down and prompted an increase in the sugar import quota in January. With the larger quota, domestic prices are expected to slip.

Freeze Wreaks Havoc on Florida

The freeze that hit Florida, Louisiana, and the lower Rio Grande Valley in Texas on December 24 and 25 was comparable in intensity and duration to the tree-killing freeze of December 1983.

The heaviest production losses occurred in Florida, where harvest of the \$1.8-billion citrus crop had just moved into high gear. Florida's orange output for the 1989/90 marketing year probably will be down 23 percent because of the freeze, and juice yield estimates were cut from 1.48 gallons per box to 1.29 (frozen concentrate basis). Nearly 95 percent of Florida's orange output is used for processing, primarily for frozen concentrated orange juice (FCOJ).

The freeze likely cut Texas orange output by 37 percent. But, Texas accounted for less than 1 percent of 1988/89 orange production, so the loss will have only a small effect on total supply.

Despite the tosses, retail prices for fresh oranges have not risen much. Eighty percent of fresh oranges last season were grown in California and Arizona, where the crop was not affected by the cold weather.

California reports a 20 percent larger navel orange crop than last season, and its valencia crop likely will be 1 percent higher. Arizona's all-orange output is forecast unchanged from last year.

Freeze damage raised prices for orange products, most notably FCOJ. Florida processors' f.o.b. prices jumped from \$1.37 per pound of solids prior to the freeze to \$2.19 by early February. However, prices were uncharacteristically low before the freeze.

Increased imports of FCOJ may moderate the retail price spike, but U.S. consumption is still likely to slip. Prices for Brazilian FCOJ also rose following the freeze, to \$2.12 per pound of solids (f.o.b.) in early February.

Brazil reports a record FCOJ output and could partially make up the Florida and Texas shortfalls by boosting its exports to the U.S. Brazil accounts for the major share of U.S. FCOJ imports.

So far as supplies are concerned, grape-fruit may be more affected by the cold spell than oranges, because Florida and Texas are the major suppliers. Florida produced 81 percent of U.S. grapefruit in 1988/89 and Texas nearly 7 percent. Florida's output, which was forecast down 20 percent from last season prior to the freeze, likely will fall an additional 18 percent, while production in Texas is forecast down 58 percent.

By hurting grapefruit quality, the freeze reduced export prospects and lowered growers' average prices. Although fresh prices rose, the all-Florida grapefruit price in January fell to \$3.94 per box, ontree equivalent, from \$5.02 in December.

For processed grapefruit products, upward pressure on retail prices will be moderated by the large stocks left unsold from last year. Processors' carryover stocks of frozen concentrated grapefruit juice have risen in recent years and will help offset this year's shortfall.

The cold weather did considerable damage to Florida's strawberry crop.

Although growers used overhead sprinklers to protect the plants, berries were lost. Production returned to normal by the end of February, though, and March shipments should be fairly typical.

Earlier-than-usual strawberry shipments from California and a rise in imports from Costa Rica and Guatemala partially filled the gap left by lighter Florida shipments. March and April traditionally are Florida's peak strawberry months.

Freeze Cut Tomatoes, Corn

The winter vegetable harvest was just shifting to the extreme southern areas in Florida when the freeze hit; virtually all unharvested production was destroyed or damaged. Tomatoes and sweet corn, the two highest value vegetables shipped from Florida in the winter, were hit the hardest.

Growers replanted some fields and salvaged damaged plants on others. Nevertheless, shipments fell short of their usual level in January and February. Normal seasonal shipping patterns are expected to return during March and April.

Mexico typically supplies nearly half the fresh tomatoes, bell peppers, cucumbers, squash, eggplant, and snap beans marketed in the U.S. during January-March. Increased imports from Mexico this season partly offset some of the shortfall in Florida shipments.

Although the freeze boosted retail prices for most fresh vegetables during January and February, prices likely will return to seasonal levels by the second quarter.

Following the 1983 freeze, the index of retail prices for all fresh vegetables rose

15 percent during January and an additional 6 percent in February. By the second quarter, the index had returned to near its prefreeze level.

The index of prices for all fresh vegetables will rise less than the prices for individual items. The reason: the overall index is heavily weighted by potato and lettuce prices, neither of which were greatly affected by the freeze. Most lettuce is grown in California and Arizona, and most potato sales during the winter are from storage stocks.

Nursery Stock Hit Hard

The largest losses of all during the freeze occurred among field-grown palms and other subtropical nursery plants in south Florida, where up to 50 percent of the marketable crop was lost to the cold. The nursery stock grown under cover was also frozen, along with potted foliage plants such as diffenbachia, dracaena, philodendron, and ferns.

Supplies will be down and prices up for the critical spring market. Buyers frequently purchase palms and other subtropical foliage plants for use on patios during the summer.

Growers of cut flowers, potted flowering plants, and cut cultivated greens also suffered losses to the cold. Young leatherleaf ferns, designated for the Easter market, were affected the most.

Supplies of all cut greens will be tight until new foliage grows out. Prices reportedly rose 10 to 25 percent following the freeze. Florida accounted for nearly 90 percent of the wholesale value for U.S. cut cultivated greens in 1988.

Domestic Sugar Output Drops

In January, USDA lowered the forecast of U.S. sugar production from the 1989/90 crop by 356,000 short tons, or 5.1 percent. Cane sugar production is now forecast to be 3.1 million short tons, raw value, down 167,000 from November's estimate.

Farm Finance

Florida's production prospects fell 130,000 tons following the freeze, while Texas's dropped 27,000. The sugarcane harvest in Florida was 40- to 45-percent complete when the freeze hit, while Texas had harvested 55 percent of its cane. In Louisiana, losses were limited to 20,000 tons because the processing season was virtually over. Hawaii's production is now expected to be marginally higher than forecast in November.

Beet sugar production is forecast at 3.5 million tons, raw value, down 5.1 percent from November's estimate, because of lower sugarbeet yields and sucrose content.

Reflecting a tighter domestic sugar crop, the U.S. sugar import quota for January 1, 1989, to September 30, 1990, was increased by 325,000 metric tons to 2.58 million.

The increase, the third during the current quota period, likely will move domestic raw sugar prices closer to the market stabilization price (MSP). The MSP for fiscal 1990 is 21.95 cents a pound. Prices averaged 23.77 cents for the first half of January, but by the end of January moved below 23 cents.

For the fifth consecutive year, world sugar production will fall short of consumption, and world prices are moving up. By the end of 1989/90, stocks could drop to 18 million metric tons, 1 million below a year earlier.

World sugar prices (f.o.b. Caribbean ports, contract no. 11) averaged 13.5 cents a pound in December, but rose to 14.4 in January. The world price for 1988/89 averaged 11.91 cents. The increase in the U.S. import quota and recent purchases by Mexico and Pakistan bolstered prices. [Glenn Zepp (202) 786-1883]

For further information, contact: Kate Buckley, fruit; Shannon Hamm, vegetables; Peter Buzzanell, sweeteners; Verner Grise, tobacco; Doyle Johnson, tree nuts and greenhouse/nursery; David Harvey, aquaculture. All are at (202) 786-1883.

Recovery Slows for Farm Lenders

arm lending institutions continued to rebound through mid-1989, albeit at a slower pace than in the past 2 years. Delinquent loans dropped for each of the four major lender groups, although the decline was not as large as in the previous year. The Farm Credit System (FCS) and agricultural commercial banks became more profitable.

Improved quality and performance in loans made by private lenders, combined with an excess supply of credit, are intensifying competition to lend. Recent structural changes among lenders add another new dimension to this competition. Commercial banks are gaining market share at the expense of the FCS and USDA's Farmers Home Administration (FmHA).

Loan Portfolio Quality Better

Midyear 1989 results show, for the fourth consecutive year, a drop in commercial banks' delinquent farm loans that are not secured by real estate. The FCS and insurance companies experienced a drop in farm loan delinquencies for a third straight year. FmHA's dud loans fell last year for the first time in the 1980's.

In each case the decline was small relative to the total portfolio, though. For FmHA, definquent loans actually represented a higher proportion of the portfolio because total loans shrank more.

Net farm loan chargeoffs at midyear were running at about half the level of a year earlier for both the FCS and commercial banks. This reflects improved loan quality for both lender groups. But, the dollar volumes of remaining delinquent loans mean that further write-offs



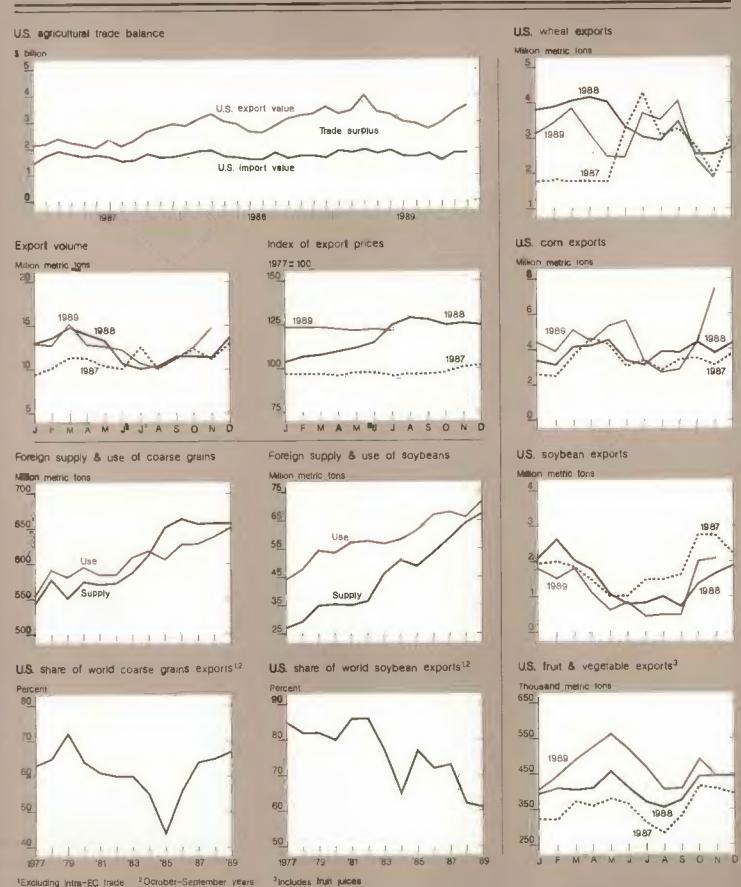
are in the offing, as lenders seek to recover the loan quality they had prior to the farm financial crisis.

Lenders are continuing to clear their balance sheets of foreclosed farmland. Land prices have improved because the rebounding farm economy has made farmers start thinking about expanding again.

Leading the way in inventory sales is the FCS, which cut its farmland holdings by more than 50 percent from the peak in 1986. The FCS and the life insurance industry have each sold over \$500 million in acquired properties, while FmHA and commercial bank inventories are down by \$168 and \$105 million.

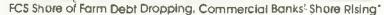
Both the FCS and commercial banks reported healthier profits. This is true despite a slight decline in net income reported by the FCS. For first three quarters of 1989, FCS income was \$457 million, down \$27 million from a year earlier. But the comparison was skewed because 1989 net income was derived more from actual interest payments, and less from paper gains created by reversing loan loss reserves.

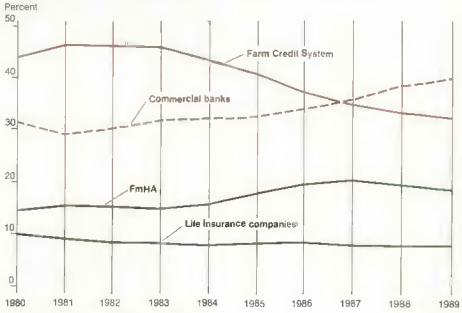
Agricultural banks reported an estimated annualized return on assets of 1.1 percent and a return on equity of 11.8 percent for the first half of 1989, the highest since 1982. At 10.4 percent of assets, farm



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Farm Finance





*Excludes household debt, 1989 preliminary.

bank capitalization was the highest since the decade's beginning. In 1989, 24 agricultural banks failed, the fewest since 1983.

Loan Volume Down Slightly

Preliminary yearend data for 1989 indicate a 2-percent decline in total farm debt. The estimated \$2.8-billion drop means that farm debt has fallen \$57 billion (29.6 percent) from its 1984 peak.

Debt outstanding fell among all lender groups except commercial banks, which are estimated to have increased loan volume. Preliminary estimates of farm loan drops for life insurance companies, FmHA, and the FCS range from \$100 million to \$1.6 billion.

As of mid-1989, commercial banks reported an annual 3.4-percent increase in total farm loans, the second straight year of gains. Bank loans backed by real estate increased 7.5 percent over midyear 1988 because of the combined effects of land purchases by farmers, refinancings, and banks' requiring real estate as collat-

eral for new loans. Non-real estate farm loans made by banks were up just over 1 percent.

Capacity to make loans remains strong at all lenders, but demand is sluggish. At the end of the fiscal year, FmHA had funds for direct operating loans that went unused, a situation uncommon during the 1980's. Agricultural bankers report that midyear loan-to-deposit ratios were well below desired levels.

Some life insurance companies report increased loan activity as farm real estate begins to move. At all private lenders, credit quality remains the dominant concern, with stiff competition for high-quality borrowers.

Two additional factors likely to affect farm credit supply are the advent of the Farmer Mac secondary market for farm loans and lenders' liability for environmental problems. Farmer Mac, which is expected to get off the ground this year, should increase agricultural real estate credit supplied over time, although the gain will be gradual.

Concern over environmental liability on land used as loan collateral may have the opposite effect, shrinking credit, as lenders wait to see how courts treat holders of property acquired in foreclosure.

Commercial Banks Grab Market Share

The farm financial crisis substantially altered market shares among the four lender groups. The changes reflect not only private lender strategies, but shifts in federal policy as well. Only life insurance companies have retained a fairly constant market share, which has ranged between 8.2 and 10 percent during the 1980's.

FCS and commercial banks have nearly reversed their positions, with the FCS dropping from 44.1 percent of the market in 1980 to an estimated 32.5 percent in 1989. Commercial banks went from a 31.3-percent market share to 40.6 percent during the same period.

FmHA began the decade with 14.6 percent of the market, rose to 20.6 percent in 1987, and probably ended the decade with an 18.7-percent share.

Of the four lender groups, only life insurance companies were relatively unaffected by direct regulatory or legislative action during the eighties.

The FmHA has had its emphasis changed from direct lending to issuing more guarantees for privately made loans. In fiscal 1980, 99 percent of its \$6.3 billion in obligations was allocated to direct loans. By 1989, of its \$2.2 billion total, only 46 percent went to direct loans and 54 percent to guarantees.

The FCS nearly collapsed in 1985, and a series of legislative rescue attempts culminated in the Agricultural Credit Act of 1987. The act radically changed the structure of the FCS. It required district-level mergers between Federal Land Banks and Federal Intermediate Credit Banks, creating new Farm Credit Banks (FCB's). The FCB's then were allowed

FMHA Shows Improvement for First Time Since the Farm Financial Crisis Lender Del Inquent Share of portfolio 2/ Net loan Share of portfolio 3/ acquired properties 4/ charge-offs loans 1/ date \$ million \$ million \$ million Percent Percent 8.7 496 928 1,093 873 661 505 5,689 6,465 8,137 5,749 3,757 3,326 1,4 1,9 0.8 0.8 0.0 6/ 14.9 11.6 7.3 6.6 6/30/89 FmHA 7/ 6/30/84 6/30/85 6/30/86 6/30/87 21.3 23.0 24.6 26.7 34.5 37.1 638 758 777 633 6,385 6,835 7,005 8,750 8,700 6/30/88 6/30/89 banks 9/ 12/31/84 12/31/85 12/31/85 12/31/86 12/31/87 12/31/88 6/30/89 2,100 2,600 2,200 1,509 1,062 companies 12/31/84 12/31/85 NA NA NA NA NA NA.

NA=not available. 1/ Includes: for commercial banks and FCS, loans past due 90 days or more and mittle accruing interest plus loans in nonaccrual status; for FMHA, only principal and interest payments more than 15 days past due; for insurance companies, loans past due 90 days or more plus those in the process of foreclosure. 2/ As a percentage of all such loans held at the beginning of the period. 3/ As a percentage of all such loans held at the beginning of the period. 4/ Excludes property held by the Banks for Cooperatives. 5/ 1984 figures not directly comparable since this was transition year in changing to new accounting practices. 6/ Less than 0.04 percent. 7/ Includes only data for farmer Loan Programs. Loan charge-offs are for the fiscal year. 8/ Decrease from previous period may reflect a changes in reporting procedures. 9/ Estimates for bank-held farm non-real estate loans. Beginning 12/87, charge-offs do not include losses qualified for the deferred loan loss program.

to merge across the 12 districts to as few as 6 FCB's.

The act allowed for mergers among Banks for Cooperatives and mergers between Federal Land Bank Associations and Production Credit Associations, creating some new variations of these lending units. More structural change is anticipated as the FCS strives to become more efficient and regain its market share.

Commercial banks were deregulated at the federal level early in the 1980's. As the 1980's progressed, many states loosened regulations against branching. Interstate banking was fostered. The farm- and oil-related contractions, combined with surging bank failure rates and new failure resolution policies, led to greater differences between large and small banks' performance.

Nearly 1,600 banks, mostly small, disappeared between 1982 and 1989. This trend is likely to continue. Even though agriculture traditionally has been served by small independent banks, as of midyear 1989 the largest banks held nearly one-quarter of commercial bank farm debt. And the big banks are increasing their share. [Doug Duncan (202) 786-1893]

Irrigated Area To Grow



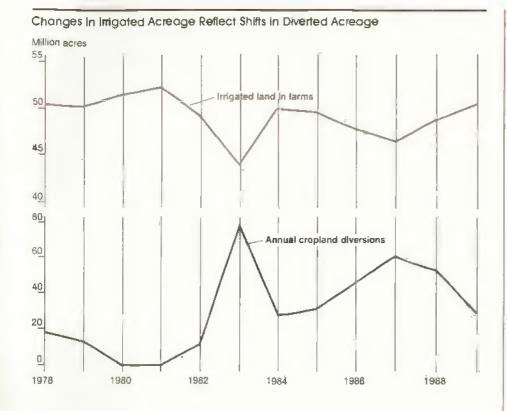
armers in the U.S continue to irrigate more land and may irrigate record areas in the early 1990's, if acreage idled by the Acreage Reduction Program continues to drop. To see this trend, though, one has to look beyond the usual statistics on irrigation.

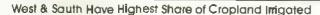
From 1949 to 1978, the area irrigated doubled, reaching 50.3 million acres, with each Census of Agriculture documenting uninterrupted growth. But, the Census of 1982 broke this trend with a drop of 1.3 million acres. The 1987 Census showed a further decline of 2.6 million acres.

A closer look at the Census and other data, however, shows this apparent reversal in trends to be an illusion. Annual data indicate that year-to-year changes in irrigation of program crops are significantly influenced by annual acreage reduction requirements. In 1987, the most recent Census year, 60.5 million crop acres were idled under annual programs, up from 11 million in 1982 and 18 million in 1978.

In only one other recent year have farmers irrigated less area. That was in 1983, when PIK contributed to a record 78 mil-

Resources







Based on 1987 data

lion acres diverted under annual commodity programs. Thus, changes in annual program diversions are strongly correlated with changes in irrigated area. This is especially true for rice and cotton.

For all program crops, about 12 percent of the year-to-year changes in annual ARP area show up as changes in irrigated area.

Lower ARP's Linked To More Irrigation

Since 1987, a substantial reduction in commodity stocks has allowed USDA to ease acreage reduction requirements. In 1989, area diverted under annual programs was about half of the 1987 acreage reductions. Preliminary estimates of irrigated land in farms show that more farmland was irrigated in 1989 than in any year since 1981. At 50.4 million acres, the 1989 irrigated area is up 4 million acres over that reported by the 1987 Census.

The Census also tracks the proportion of cropland harvested which is irrigated; this trend too shows that farmers are irrigating more. In 1987, 14.8 percent of harvested cropland was irrigated, up from 12.5 in 1978 and 13.8 in 1982.

This trend in the proportion is broad, showing few exceptions across crops or states. The growth in the proportion of harvested acreage that is irrigated is strongest among high-value crops such as fruit, vegetables, peanuts, and tobacco.

It is also geographically broad-based. Only two states, Arizona (almost 100 percent irrigated) and Texas, show that a

Region	Cens us	Census	Est.	Est.	Est.	Census	Est.	Est.	Est.	Est.	Census	Prel fr	n¶nary
	1969	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
						Mill	ion acr	res					
The arid West	22.8	26.8	26.9	26.8	27.1	26.0	24.0	25.8	25.1	24.4	24.1	24.8	25.7
Plains States	12.0	16.4	16.4	17.1	17.0	15.3	12.4	15.7	15.5	14.6	13.4	14.1	14.7
The humid East	4.2	7.0	6.8	7.3	7.9	7.6	7.2	8.3	8.7	8.4	8.7	9.7	9.8
rotal: U.S.	39.1	50.4	50.2	51.4	52.1	49.0	43.7	49.9	49.5	47.5	46.4	48.7	50.4

smaller percentage of their harvested cropland was irrigated in 1987 than in 1982.

Following 1987, irrigated acreage was up in all regions, as acreage held out by annual programs declined. Much of the gain occurred in the Northern Plains and Mountain regions, where water is supplied mostly through an elaborate system of large reservoirs and downstream delivery operations.

Percent of Crop Irrigated: Specialty Crops, Rice, & Cotton Dominate



CRP Link Is Weaker

The proportion of irrigated land in the long-term CRP has not been as large as in the annual programs. Irrigated land in the CRP through 1987 represented less than 2 percent of total enrollment.

The long-term retirement of irrigated land is most likely to occur when an aquifer is near economic exhaustion (high pumping costs are eliminating profits), when old irrigation systems need costly repairs or replacement, or when farmers sell either their water or their land for nonagricultural uses.

The 1988-89 decline in the Southern Plains and Delta States is attributed to a high ARP for cotton, but also to participation in the Conservation Reserve Program in the High Plains. Farmers in the High Plains with greater pumping costs probably garner only marginal economic benefits from irrigation.

More Irrigation In the East

Regional trends in total irrigated acreage vary. The arid West depends heavily on irrigation, which was adopted early using surface water, made available to farmers largely by heavily subsidized public water projects.

About three-fourths of Western land was already irrigated in 1949. Back then, the West accounted for about 80 percent of U.S. irrigation. Western irrigated area peaked in 1977-81, but it has shown a modest recovery following the recent lows in 1983 and 1987.

Irrigation in the Plains States tripled in the postwar period, from less than 5 to more than 16 million acres. The primary factors allowing this largely private development were the new deep well pumps that reach groundwater aquifers, and the labor-saving, center-pivot distribution technology.

Expansion centered in the Southern Plains during 1949-69 and in the Northern Plains during 1969-78. Irrigation in the Southern Plains, in contrast to other regions, has not recovered to previous levels and may keep slipping.

Irrigation development now centers in the more humid Eastern states, where it supplements rainfall during short dry periods. From less than 5 million acres in 1969-74, irrigated area in these states has steadily expanded to about 10 million acres in 1989. In the past decade, expansion in the East has offset declines in the arid West and Plains states.

The potential is enormous for irrigated area to grow in the East. Water resources are plentiful and the adoption of irrigation for high-value and specialty crops is still under way.

Furthermore, irrigation is expanding to major field crops. Between 1982 and 1987, dependence on irrigation among Com Belt producers of com, although still small in acreage, increased by more than 50 percent. In the Delta, soybean

Farm Real Estate Values Revised Upward

According to revised USDA estimates, inflation-adjusted farmland values bottomed out earlier in the 1980's and have risen more since the trough than earlier believed. In February 1989, current-dollar farmland values nationwide averaged \$667 per acre, up from the previous estimate of \$597 (see table 1 in the back of this issue).

In real terms, farmland values reached their ebb in 1987, as opposed to a year later, according to the revisions. Real values during 1987-89 are now estimated to have risen 2.5 percent. Before the revisions, the average real value was believed to have been essentially unchanged.

Every 5 years, following the Census of Agriculture, USDA revises its annual estimates of farmland values. Census data are the most complete and accurate source for estimates of

producers irrigated 20 percent of their crop in 1987, compared with only 8 percent in 1982.

Long-Term Constraints Remain

In the near term, fluctuations in irrigated acreage will continue to be driven primarily by the weather (in humid states) and by short-term cropland diversion programs. With an easing of rice, wheat, and cotton acreage reduction requirements, and the continuing trend toward

national and state-level farmland values. USDA conducts smaller and slightly different surveys of farmland values to put together annual estimates.

The Census sample, which covers about 25 percent of all farm operators, totals over 500,000 farms. The Census questionnaire asks for estimates of the current market value of the land and buildings used by the respondent. Response is mandatory.

On the other hand, the USDA annual estimates between the Censuses are based on surveys of about 28,700 farm operators. And the questionnaire asks the respondents to estimate the values in their "locality" (since 1989, in their county), excluding farm buildings. Moreover, the USDA surveys ask for estimates by land use—cropland, pasture, and woodland. Response to the USDA surveys is voluntary.

Another critical difference is that the Census has better coverage of the rela-

higher proportions of crops being irrigated, irrigated area in 1990 will be about I million acres higher than in 1989.

Beyond 1990, irrigation could rise by 3-4 million acres above current levels if the area idled under the annual programs is brought back into production. The increasing dependence on irrigation highlights an additional background trend, with growth in the Northern Plains and the East exceeding declines in the Southwest by about a half million acres per year.

But there are limits. Across the Southwest and in Florida, there is intense competition for limited water resources. After a brief pause in the mid-1980's, the sunbelt's reputation for high-tempo growth in population and jobs has reasserted itself.

tively small operations, and they often have high-valued real estate.

Because the 1987 Census was conducted in early 1988, the Census values are adopted as the revised USDA estimates for February 1988. When the Census values on a state level for that year are weighted by their acres in farmland, the 48-state estimate averages \$632 per acre, about 12 percent above the earlier USDA estimate of \$564.

The 12-percent adjustment is about the same size as the revision following the 1978 Census, but about double the adjustment that followed the 1982 Census. While the USDA estimates have been below the Census estimates for the last three Censuses on a national level, state-level estimates show no systematic differences.

Revised state-level estimates will be available in late April, in the Agricultural Resources Outlook and Situation summary. [Roger Hexem and Fred Kuchler (202) 786-1422]

Growing municipal and industrial requirements translate into tighter competition for water resources and more limited water prospects for farming in sunbolt states. Elsewhere, water quality and other environmental issues limit the potential expansion of water used by farmers.

For significant long-term growth in irrigated area, the focus shifts to using irrigation water more efficiently. Water is already being budgeted better with low-pressure sprinkler and drip systems designed to target applications, better water management, and shifting use toward high-value crops. [Bill Quinby (202) 786-1433, John Hostetler, and Rajinder Bajwa (202) 786-1410]

CRP Up to 34 Million Acres

he Conservation Reserve Program gained 3.3 million acres from the ninth signup period, held July-August 1989. Approved from bids totaling 4.2 million acres, this additional area brings total CRP enrollment to 33.9 million acres. The signup reverses a trend of declining enrollments during earlier bid periods.

The CRP is a voluntary program administered by USDA. In exchange for farmers' retiring highly erodible or environmentally sensitive cropland for 10 years, USDA pays participants an annual per acre rent plus half the cost of establishing vegetative land cover, usually grass or trees.

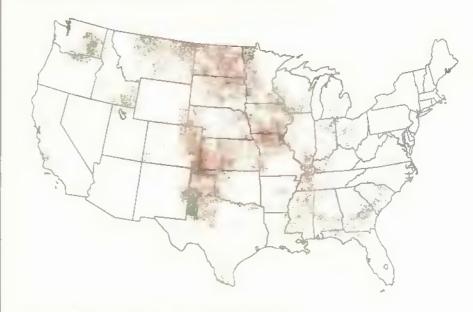
Yearly Payments Flat

Rental payments to be received by farmers in the ninth signup will average \$51 per acre per year, nearly the same as the eighth signup, but considerably above the \$42-\$47 average for the early signups in 1986. Federal government rental expenditures for all 33.9 million CRP acres will total \$1.7 billion per year.

The government cost-share for establishing vegetative land cover averaged \$37 per acre for the ninth signup. This average cost has been relatively steady through all signups, but individual costs can vary considerably for different conservation practices. The government has spent an estimated \$1.3 billion since 1986 on the cost-sharing.

Annual soil erosion reductions on land enrolled in the ninth signup averaged 14 tons per acre, substantially less than the 25-27 ton average for the initial signups.

Highest CRP Enrollment in Corn Belt, Northern Plains



One dot equals 1,000 acres. Total enrollment is 33.9 million acres.

tem	Number of contracts	Number of acres	Average rental rate	Average erosion reduction
	1,000	MULLION	\$/acre/yr.	Tons/acre/y
ignup period #1 Mar. 1986 #2 May 1986 #3 Aug. 1986 #4 Feb. 1987 #5 July 1987 #6 Feb. 1988	9.4 21.5 34.0 88.0 43.7 42.7	0.75 2.77 4.70 9.48 4.44 3.38	42.06 44.05 46.96 51.19 48.03 47.90	26 27 25 19 17 18
#7 July- Aug. 1988 #8 Feb. 1989	30.4 28.8	2.60 2.46	49.71 51.04	17
#9 July- Aug. 1989	34.8	3.33	50.99	14
Total	333.4	33.92	48.93	19

Erosion reduction from all CRP enrollment is currently estimated at 655 million tons per year, or about 21 percent of the erosion generated by all cropland.

Bulk Is in Northern Plains

Fully 44 percent (1.5 million acres) of new enrollment came from the Northern Plains (North Dakota, South Dakota, Nebraska, and Kansas), which now accounts for 28 percent of the total acreage in the CRP. New enrollments in the Dakotas totaled 1 million acres.

The Mountain region furnished 14 percent (472,000 acres) of ninth signup enrollment, and the Corn Belt region 13 percent (432,000 acres).

About 78 percent of land enrolled in the ninth signup was scheduled to receive grass cover, while less than 7 percent was to be planted in trees. In addition, 8,700 acres were enrolled as filter strips, bringing total CRP filter strip coverage to nearly 49,000 acres. The remaining

acreage will go to various conservation uses, including wildlife habitat.

Eligible for enrollment beginning with the eighth signup, cropped wetlands and scour erosion areas accounted for 254,000 and 80,000 acres of ninth enrollment. This brings total CRP cropped wetlands to 410,000 acres and scour erosion areas to 143,000 acres.

Enrollment of these acres, along with CRP filter strips, is expected to improve water quality. Scour erosion results when streams or rivers overflow into adjacent fields. Trees will be planted on most of this land.

In addition to environmental purposes, the CRP was enacted to help control commodity supplies. Including the 2.2 million acres of commodity program base in the ninth signup, a total of 21.8 million acres of base have been retired through the CRP.

Wheat base constitutes the largest portion (10.3 million acres), followed by corn (3.8 million), barley (2.7 million), and sorghum (2.4 million). Because these acres are ineligible for commodity program payments during the 10-year contract, the CRP is helping to hold down costs of traditional USDA producer support programs.

At present, additional enrollment in the CRP is uncertain. While the program has been extremely successful in reducing soil erosion, some environmentalists feel that too little emphasis has been given to water quality goals. Other critics have expressed concerns about the amount of wheat base acreage idied by the program.

While enabling legislation envisioned a goal of 40-45 million acres in the CRP by the end of 1990, no 1990 signup opportunities have yet been announced. [Tim Osborn (202) 786-1405]

Food and Marketing

Food Price Rises To Moderate

In 1990, food prices are expected to rise 3 to 5 percent. The forecast reflects the impact of the Christmas freeze in Florida and Texas on fruit and vegetable prices. It also shows the effect of an expected drop in U.S. pork production. Even with these recent developments, the forecast remains moderate relative to 1989.

In 1989, the CPI for food averaged 5.8 percent higher than in 1988, the sharpest increase since 1982, according to final data. Food prices rose faster than many other prices; the CPI for all goods and services rose 4.8 percent.

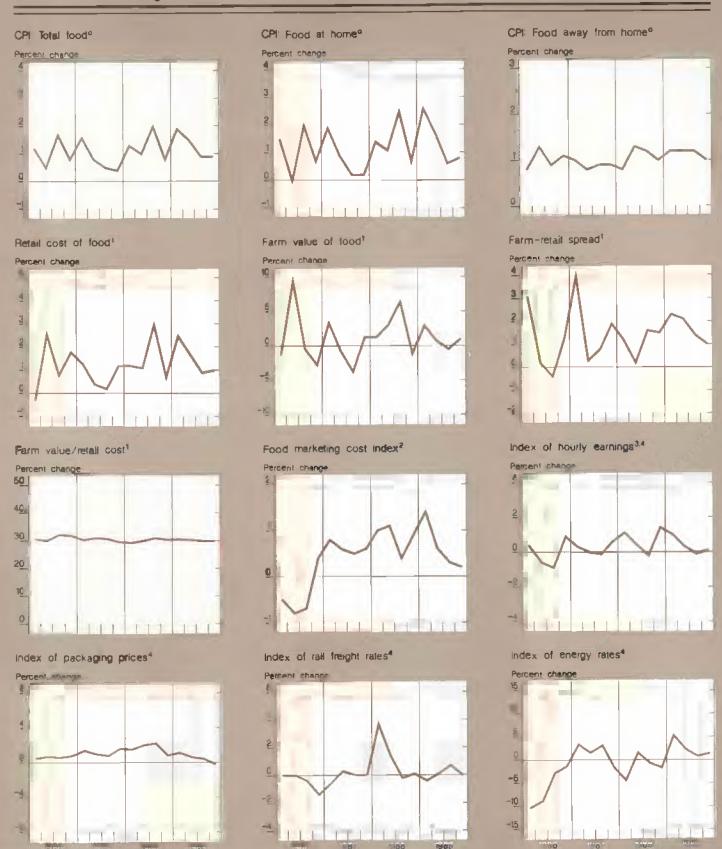
Prices for food sold in grocery stores last year averaged 6.5 percent above 1988, while food sold in restaurants and fast food establishments rose a relatively modest 4.6 percent.



Freeze Pushes Up Retail Prices

The December freeze destroyed fresh market citrus production in Texas, although much of the fruit was salvaged for processing. In Florida, grapefruit production was slashed 14 percent. Texas and Florida provide about 80 percent of fresh grapefruit but only about 20 percent of fresh oranges.

Poultry and Egg Prices To	Orop, But Fre	esh f ruit F	rices Sur	9e	
Consumer price indexes	Relative Importance	1987	1988	1989	Forecast 1990
			Percent		
All food	100.0	4.1	4.1	5.8	3 to 5
Food away from home	38.3	4.0	4.1	4.6	3 to 5
Food at home	61.7	4.3	4.2	6.5	2 to 4
Meat, poultry, & fish Meats Beef & veal Pork Other meata Poultry Fish & seafood Eggs Dairy products	18.9 12.5 6.5 3.5 2.5 3.0 2.4 1.0	6.4 7.1 7.6 8.2 6.3 10.6 -5.9 2.5	3.5 2.4 5.5 -3.0 2.6 7.2 5.8 2.3	5.0 4.0 6.4 0.6 2.8 9.9 4.5 26.6 6.6	1 to 3 2 to 4 0 to 2 5 to 8 2 to 4 6 to -9 3 to -14 1 to 3
Fate & oita Fruits & vegetables Fresh fruits Fresh vegetables Processed fruits & veg. Processed fruits Processed vegetables Sugar & sweets Cereals & bakery prod. Nonalcoholic beverages Other prepared foods	2.4 1.8 2.2 8.7	1.5 8.8 11.3 12.9 3.5 4.1 2.7 1.8 3.5 -2.6 4.2	4.6 7.6 8.3 6.3 6.3 10.3 4.8 2.7 6.4 0.0	7.2 8.5 6.6 10.7 6.3 3.2 10.7 4.7 8.5 6.4	2 to 4 7 8 to 12 4 to 6 5 to 9 0 to 5 7 5 to 5 7 5 to 5 7 5 5 5 5 to 5 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5



Findex of changes in labor, packageing transportation, energy, and other marketing coats. findex based on market basket of farm foods In food retailing, wholesaling, and processing. *Component of lood marketing cost index.

All series expressed as percentage change from preceding quarter except for "Farm value/retail cost" chart.

Food and Marketing

The price impact will be stronger for fresh grapefruit than for fresh oranges. A larger California orange crop this year will help offset any fresh market shortages caused by the freeze. Nevertheless, the CPI for all fresh fruit is forecast to rise 8 to 12 percent above 1989.

Most of Florida's oranges are processed into frozen concentrated orange juice. This year, FCOJ production in Florida is expected to be 60 to 70 million gallons below last year. But, Brazilian output is 90 million gallons larger than a year earlier. Thus, FCOJ imports from Brazil will be greater than usual and will dampen upward price pressure.

Even so, FCOJ prices likely will climb. The CPI for all processed fruit in 1990 is expected to average 5 to 9 percent above 1989. Brazil has raised the price of its exported product.

The freeze also hit fresh vegetable crops in Florida and Texas. Shipments have fallen sharply since, causing shortages in many markets. Under ordinary conditions, nearly half of U.S. winter vegetables come from Mexico. While Mexico is boosting vegetable sales to the U.S. this winter, it will not be able to offset all of the domestic shortfall.

Retail prices for fresh vegetables have shot up. Tomato prices in January were more than double a month earlier. The CPI for fresh vegetables in the first quarter of 1990 likely will average 30 percent above the last quarter of 1989.

As new harvests begin in late March, both from replanted winter area and from spring acreage, fresh vegetable supplies will expand and prices will fall steeply. Second-quarter prices will be well below first-quarter, but still not enough to offset the first-quarter spike. So, the CPI for fresh vegetables in 1990 will rise 4 to 6 percent above 1989.

Tighter Hog Supply Boosts Pork Prices

Pork production in 1990 is expected to be down 1 to 3 percent from 1989. Smaller market hog inventories and

lower farrowing intentions reported by producers suggest smaller production. As a result, retail pork prices are expected to average 5 to 8 percent above 1989.

Despite the fruit/vegetable and pork price gains, ample supplies of most foods this year will help to keep price rises below the 1989 rate. Costs of processing and distributing food will increase more slowly, reflecting a lower overall rate of inflation expected for 1990.

Sharply lower poultry and egg prices this year, reflecting larger production, will help to offset strong increases in fruit and pork prices. Prices of most other foods will rise within the 3- to 5-percent range. [Ralph Parlett (202) 786-1870]

Upcoming Economic Reports

Summary Released Title

March

- 9 World Agricultural Supply & Demand
- 12 Vegetables & Specialties
- 14 Fruit & Tree Nuts
- 15 Sugar & Sweeteners
- 19 Agricultural Outlook
- 20 World Agriculture
- 22 U.S. Agricultural Trade Update
- 23 Livestock & Poultry Update
- 28 Aquaculture

Policy

How Effective Is the ARP?

Recent USDA research shows that raising the Acreage Reduction Program requirements in the feed grain program from a theoretical 5 percent up to 40 percent would cut government outlays by \$4.7 billion and reduce net farm income by \$2.8 billion. The research indicates that the hike would push down feed grain output only about 5 percent.

Falling program participation rates, combined with more intensive use of permitted acres, are behind these results.

Since, according to these results, changing ARP's has only minor effects on overall supplies of feed grains, the primary trade-off of changing ARP's is between budget outlays, stock levels, and net farm incomes. Moreover, the effects of the ARP beyond the farm sector were found to be small when measured from the 1989 benchmark.

The theoretical analysis here shows that ARP's lose their effectiveness as the percentage ARP requirement is increased. The analysis simulates what would happen as feed grain ARP's are increased somewhat beyond historical experience to help illustrate this point. The actual high was set in 1987/88, when the feed grain ARP combined with the Paid Land Diversion required participating farmers to put 35 percent of base acres into conserving uses.

The specific results of the research hinge in part on the benchmark year used. But the choice of a benchmark does not affect the basic conclusions. Participation rates depend on the gap between the target price and the expected market price, so choosing a year with lower market prices as the benchmark would have muted the results slightly.



Nevertheless, as the ARP percentages increase, participation rates drop sharply. And there is some evidence that the results here may understate how fast participation drops.

Slippage Cuts Effectiveness

Acreage and production responses in the study show that a feed grain ARP of 5 percent is only 40-percent effective in controlling corn acreage. Effectiveness was defined as the actual percent reduction in acreage (or production) divided by the ARP percentage. Effectiveness in controlling acreage declines to 25 percent at an ARP of 40 percent.

Slippage, the fact that production does not decline as much as program acreage idled increases, accounts in part for the ARP's lack of effectiveness. Participants would use more chemicals and equipment, and plant on their best land, while idling their least productive acres. Slippage is nearly constant at 15 percent of the acreage idled, study results indicate.

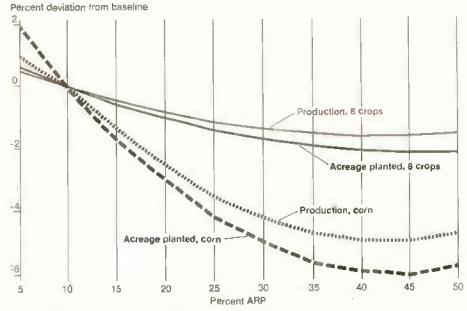
Acreage planted to corn would decline by a maximum of slightly over 6 percent if the ARP were increased anywhere from 5 to 40 percent. But, yield increases on the remaining acres would cause corn production to decline by only about 5 percent.

This research shows that ARP's above 40 percent actually would result in increased total acreage and production of corn. Anticipating higher prices, farmers

not in the program would enlarge their planted acres markedly.

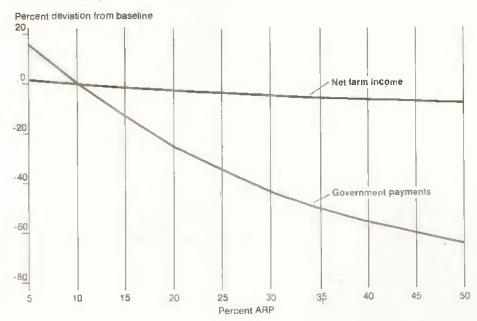
Barley and sorghum production would each decline by a maximum of 13 percent. Even though not directly affected, soybean acreage and production would respond in the opposite direction from feed grains, increasing by up to 2.6 per-

50-Percent Feed Grain ARP Cuts Output of 8 Majar Craps* Only 1.5 Percent



*Wheat, corn. sorghum, barley, oats, soybeans, cotton, and rice.

How Higher Feed Grain ARP Would Affect Government Payments, Net Farm Income



cent if the feed grain ARP were upped to 40 percent.

If the feed grain ARP were increased anywhere from 5 percent to as high as 50 percent, total acreage planted to the eight major crops (wheat, corn, sorghum, barley, oats, soybeans, cotton, and rice) would decline by less than 3 percent at most from the benchmark, and total output would decline by less than 2 percent.

Farmers Would Leave Programs

Farmers' participation rates in the programs are the most important variables in the response of acreage to different ARP's. Participation in the corn program, for example, would drop from 80 percent to 43 percent if the feed grain ARP were raised from 5 percent to 50.

At an ARP of 50 percent for all program feed grains, the program acreage planted to them would decline sharply, from nearly 78 million to 24 million. Acreage in conserving uses in the programs would increase from 4 million to 24 million.

The maximum reduction in planted acres of the eight major field crops (5.6 million) would be only about one-quarter of the increase in land in conserving uses in the programs. Nonparticipants would adjust their plantings by taking land out of forage and minor crops to increase their plantings of major crops. This would nearly offset the effects of the ARP on production.

On-Farm Use, Stocks Would Change

Under a much greater ARP, decreases in production would push up prices and lower on-farm use and stocks. Declines

What Would Nappen If	the Feed G	irain ARP Rose	to 40 Percer	nt	
Variable	Corn	Sorghum	Barley	Wheat	Soybeans
		Percentage (change from t	enchmark	
Prices	15.0	15.6	24.6	2.5	-5.9
Production	-5.0	-7.7	-9.0	-0.0	2.0
Total use On-farm Food & Ind. Exports	-3.3 -2.3 -0.1 -0.9	-4.3 -5.2 0.0 0.9	-5.5 -4.6 -0.9 0.0	2.6 3.1 0.4 -0.9	1.2 -0.1 0.7 0.6
Stocks	-1.77	-3.5	-3.5	-2.6	0.8

How the Analysis Was Done

When policymakers assess establishing a particular level of ARP in a given year, they weigh the relative strength of the desired effects—production control, budget reductions, and limiting CCC stock accumulation—against any undesirable side-effects.

The determining factor in whether ARP's produce side-effects on the economy is their ability to control supply. If ARP's are effective, they will have pervasive impacts on the nonfarm sector. If they do not reduce output much, their effects will be limited to the farm sector.

The effectiveness of ARP's in reducing supply of supported commodities depends on such factors as:

- participation rates, or the proportion of acreage signed up for the programs;
- slippage, or the offsetting changes in the use of inputs and resources by participants;
- base-building or -preserving behavior, that is, planting crop mixes that maintain or expand a farm's program acreage base;
- adjustments in the farm sector that offset the ARP's, such as crop mix

adjustments by nonparticipants, inventory drawdowns, and livestock feed utilization changes;

 adjustments in the nonfarm sector, such as in food and industrial use of commodities and exports.

In previous research, most of these individual relationships have been estimated to be relatively minor in importance. But, the simultaneous effects of these factors on the effectiveness of ARP's can be quite different, as shown here.

In this analysis, ERS's Food and Agricultural Policy Simulator (FAPSIM) model was run to assess how increasing the ARP in the feed grain program would affect some major variables of the farm sector. The FAPSIM model incorporates statistical estimates of all the relationships listed above that help to determine the effectiveness of ARP's.

The ARP in the feed grain program was varied from 5 percent to 50 percent by increments of 5 percentage points for 1989, after which the ARP's were returned to their benchmark levels. Deviations from the benchmark values were analyzed for 1988-93. The ARP for the benchmark in 1989 was 10 percent.

The model is dynamic. When it is shocked, such as by increasing the ARP, changes in both prices and quantities reverberate through the results for several years. Because this pattern exists for all variables in the model, the results described here are the maximum effects in the initial year.

in total corn use would account for 3.3 percentage points of the 5-percent drop in production—mostly in feed, seed, and residual farm use.

Reduced food and industrial use would account for only 0.1 percentage points, and reduced exports for 0.9. The balance of 1.7 percentage points would come from drawing down stocks.

Production of all feed grains would fall 5.3 percent, with the resulting higher prices squeezing farm use and stock levels. Reduced food and industrial use and smaller exports account for only 0.1 and 0.7 percentage points of the output change.

Wheat output would not change, but farm, food, and industrial use of wheat would go up. This would draw down wheat stocks and lower exports. Soybean production, use, exports, and stocks would increase.

Prices Would Rise, Payments Drop

Prices of feed grains respond to changes in the feed grain ARP more than output responds. Corn prices would increase by a maximum of 15 percent if the ARP were raised to 40 percent. Sorghum and barley prices would follow the pattern of corn, climbing to 17 and 28 percent above benchmark levels with a 50-percent feed grain ARP. Soybean prices would drop by 7 percent with the 50-percent ARP.

Direct government payments and budget outlays would fall sharply for all sup-

ported commodities, not just feed grains. With a 50-percent feed grain ARP, total deficiency and farmer-owned reserve storage payments would decline by 80 percent, from over \$8 billion to \$1.6 billion, mostly through savings in the comprogram.

For the eight major crops listed earlier, cash receipts would rise less than 1 percent with a feed grain ARP of 40 percent. Corn cash receipts would peak after climbing 4 percent. Sorghum receipts also would go up 4 percent. Soybean cash receipts would decline steadily as ARP's were increased.

Because cash receipts are reported on a calendar-year basis, the increased returns for the 1989/90 marketing year would have been spread over both 1989 and 1990. In addition, cash receipts would not go up as much as the changes in price and output might suggest, because farmers would continue to use some of their own production on the farm, rather than sell it.

Cash receipts for livestock would rise as much as 2 percent in the year following the implementation of the 40-percent ARP, and continue at that level for about 2 more years.

Seed, fertilizer, and pesticide expenditures would decline 2 to 4 percent in the year the feed grain ARP was boosted to 40 percent, but they would rebound to above their earlier level in the second year. Feed expenditures, being of farm origin, would respond to the tightened supplies and greater prices by going up 2 percent in the first year and holding steady through the second year.

The components of farm income would be relatively stable except for government payments. On balance, increasing the feed grain ARP any amount from 5 to 40 percent would cut net farm income by a maximum of 6 percent from the benchmark. [David H. Harrington (202) 786-1520 and J. Michael Price (202) 786-1689]

Upcoming Releases From The Agricultural Statistics Board

The following list gives the release dates of the major Agricultural Statistics Board reports that will be issued by the time the next Agricultural Outlook comes off press.

March

- 2 Egg Products Pouitry Slaughter
- 6 Dairy Products
- 7 Celery
- 8 Vegetables
- 9 Crop Production
- 14 Potato Stocks
 Turkey Hatchery
- 15 Milk Production
- 16 Cattle on Feed
- 19 Livestock Slaughter-Annual
- 20 Catfish Cold Storage-Annual
- 22 Eggs, Chickens, & Turkeys Vegetables
- 23 Cold Storage Livestock Slaughter Wool & Mohair
- 26 Hop Stocks
- 28 Hatchery-Annual Peanut Stocks & Processing
- 29 Agricultural Prices
- 30 Prospective Plantings Grain Stocks Rice Stocks Hogs & Pigs

Family Farmers Rebounding, But Face Challenges

This article is based on the 12th annual report to Congress on the status of family farms. The report, "The U.S. Farm Sector as It Enters the 1990's" (AIB 587), can be ordered by calling 1-800-999-6779 (8:30-5:00 ET).—Ed.

S. family farmers, as they begin the 1990's, are emerging from the financial difficulties that characterized the mid-1980's. The percentage of farm operator households in the strongest financial condition is increasing, and the percentage of those financially vulnerable has dropped.

While average household income for farm operators lagged behind that of all U.S. households during the early 1980's, the decade closed with farm households ahead of their nonfarm counterparts.

But, a number of challenges face farmers. As agricultural markets continue to become more global, farmers' fortunes are increasingly linked to farming trends and policies around the world. Moreover, the value of the dollar, interest rates, inflation, tax policy, and water quality and a host of other environmental concerns all affect U.S. farmers today to an extent not believed possible 20 years ago.

Almost All U.S. Farms Are Family Owned

About 3 percent of all farms are organized as corporations, and almost all of these are family held. Only 0.3 percent of farms are corporations owned and operated by a unit other than a family. Eighty-seven percent of all farms are owned and operated by a single family. The remainder are operated as multifamily partnerships.

Nonetheless, the 6,000 nonfamily corporate farms account for about 6 percent of farm output. Despite fears that this form of farming is gaining ground, nonfamily corporate farming did not change as a percentage of all farms during 1982-87. This is based on the 1987 Census of Agriculture, the most current of available data.

The long-term structural trends of declining farm numbers and land in farms, coupled with increasing farm size, continued through the 1980's. At 2.1 million, the 1987 farm count was down 6.8 percent from 1982. While fewer in number, very small farms (with less than \$10,000 in gross sales) increased as a proportion of all farms during the 1980's.



The number of farms with \$10,000 to \$100,000 gross sales decreased in both absolute and relative terms. The proportion of large commercial farms, which produce the bulk of U.S. food and fiber, continued to increase. These trends show little prospect of changing soon.

For over half a century, the federal government has managed the supply or supported the price of major agricultural commodities. The government's actions were confounded during the 1980's by dramatic declines in world prices and drops in the U.S. shares of world commodity markets.

During the 1980's, between \$2 and \$20 billion was transferred annually from taxpayers to farmers who grew wheat, rice, feed grains, cotton, and other program crops. These amounts include both direct payments to producers and net CCC loans. Payments represented 1 to 13 percent of total annual U.S. gross cash farm income during the decade.

Not All Participate In Federal Programs

Most farms do not produce program commodities and, among those that do, not all participate for one reason or another. Nationwide, about one in three farms received some of the \$14.5 billion in direct government payments made in 1988. Participation varies by size and type of farm, and by location. For example, 90 percent of cotton farms reported receiving payments in 1988, while 49 percent of dairy farms reported payments.

Participation is highest among producers in the Northern Plains, Corn Belt, and Lake States. Recipient farms reported average payments of \$14,300. Farms in the very small group averaged \$2,500 in direct government payments, while those in the largest size group (\$500,000 or more in annual sales) averaged \$68,000.

Ninety percent of the direct payments go to the one-third of producers with sales of \$40,000 or more. About 14 percent of the payments go to the 2 percent of U.S. farms with sales of \$500,000 or more. This reflects a characteristic of federal farm commodity programs present since their genesis in the 1930's; the amount of support is directly related to the quantity of a commodity that a farmer produces, sending the largest support payments to the largest producers.

Government payments helped participating farm families stabilize their financial situation during the financial stress and debt restructuring of the 1980's.

The need for farmers to master the technical aspects of farm production and marketing and farm programs has been obvious for years. Competitive farmers know about new bio-research products coming on line. They understand commodity programs and know how to use them. The most sophisticated carefully watch the commodity markets, looking for the best time to sell.

What is new is the extent to which farmers must also stay abreast of the larger economic, environmental, and scientific worlds in which they are increasingly required to operate. Farmers' well-being more and more is influenced by factors beyond their control.

External Events Added to Farm Crisis

Farmers' financial problems in the early and mid-1980's can be traced partly to macroeconomic developments that had little to do directly with the agricultural sector. An abrupt tightening of national monetary policy to stem inflation and the large budget deficits run by the federal government pushed real interest rates to historic highs in the early 1980's.

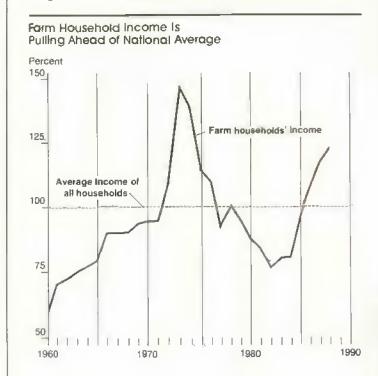
Interest-sensitive farmland prices dropped, and many debt-burdened farmers not only lacked the income to meet their financial obligations but also no longer had sufficient collateral against that debt. Farmers' financial problems soon ricocheted into their financial institutions.

But part of the crisis reflected the fact that analysts and farmers severely underestimated how quickly and by how much the world's producers could respond to the higher prices of the early 1970's. During the 1970's, global wheat production jumped by more than 41 percent. Rice output swelled nearly 27 percent, and coarse grain production went up about 29 percent. Even with prices falling in the first half of the 1980's, world grain output rose nearly 15 percent. These price movements dashed farmers' expectations, formed in the early 1970's, of ever-rising profits.

Moreover, historically high dollar exchange values in the early 1980's encouraged more U.S. agricultural imports, caused a loss

in the U.S. share of world markets, and so pushed down commodity prices. Caught with relatively high support prices mandated by the 1981 farm bill, the government saw outlays to farmers jump.

Roughly a third of farmers had leveraged themselves heavily by taking on debt to finance expansion in the 1970's. As the 1980's



Most Stressed: Forms in Smollest Sales Closs. Nondalry Livestock Operations, & Corn Belt Farms



Percentages as of January 1, 1989.

Special Article

progressed these were the farmers who had to go through restructuring, and some went out of business. Now, most of this adjustment process is complete.

New Financial Environment Emerged

In 1985, governments of the major developed nations signed an agreement, the Plaza Accord, that signaled a willingness to help bring down the high value of the dollar by altering their domestic monetary and fiscal policies. At the same time, the passage of the Gramm-Rudman-Hollings deficit reduction act showed that U.S. policymakers were ready to bring down the federal budget deficit. And the U.S. government rescued the ailing Farm Credit System.

During the 1980's, commercial banks were deregulated. Buffeted by collapsing farmland and oil prices, more than a thousand small banks went out of business; many of those that disappeared had specialized in agricultural lending. The savings and loan crisis has decimated the industry, and many analysts believe that the

restructuring will limit credit availability in both rural and urban areas of some regions.

So, a new financial environment has emerged out of the turmoit of the 1980's. In a narrow sense, both farmers and agricultural lenders are now more cautious in taking on and extending credit.

In a larger sense, the 1980's have demonstrated how much the finances of the agricultural sector are tied to national fiscal and monetary developments and national financial markets. Farmers now must compete with borrowers in other industries to get funds to expand or meet operating needs.

Tax Changes Limit Investment

Recent sweeping changes in tax policy, initiated for reasons having little to do with agriculture, nevertheless have significantly affected both investment in farming and the distribution of income tax liabilities among farmers. For many years, federal income tax provisions encouraged both farmers and nonfarm investors to invest in farming to shelter their income from other sources.

••••••	Individual or family	Partnersh ip	Family- held corporation	Nonfamily corporation	Total*
umber of farms (1,000) hare of total (percent)	1,809 86.7	200 9.6	6 2.9	6 0.3	2,088 100
and in farms (percent)	65.1	15.9	11.0	1.4	100
arket Value of ag products sold: Total sales (percent) Average farm (\$1,000)	56.3 42.3	17.2 116.7	19.5 436.9	6.1 1,341.4	100 65.2
arms selling (percent) Lesm than \$10,000 \$10,000-\$49,999 \$50,000-\$79,999 \$100,000-\$249,999 \$250,000-\$249,999 \$500,000 or more	100 52.4 26.2 10.1 8.5 2.1 0.7	100 31.9 28.5 13.1 15.8 6.7	100 15. 5 17.1 13.3 24.1 15.1	100 19.6 18.0 10.1 16.8 10.6 24.8	100 49.2 26.1 10.4 9.7 2.9 1.5

Year	Favorable	Marginal	Marginal	Financialty
	finances	income	solvency	vulnerable
rear	2/		.=	5/
		Pero	tent	
1984 1985	41.4 45.4	39.6	6.9	12.1
1986	47.4	33.3	10.1	11.2
1987		31.0	11.1	10.5
1988	51.7	33.4	8.1	6.8
	49.1	37.3	6.6	7.0

17 Based on net cash household income, which considers all sources of income and expenses accruing to the farm operator household. 2/ Favorable: positive income and a debt/asset ratio of less than 40 percent. 3/ Marginal income: low debt but negative income. 4/ Marginal solvency: high debt (debt/asset ratio above 40 percent) and positive income. 5/ Vulnerable: high debt and negative income.

The tax provisions encouraged expanding agricultural production for noneconomic reasons, and put downward pressure on commodity prices. While the amount of these tax-motivated investments is uncertain, farm tax losses were prevalent throughout the period.

From the early 1970's to the early 1980's, the share of farm sole proprietorships reporting losses for tax purposes increased from one-third to two-thirds, with the net business loss exceeding \$10 billion in some years.

The Tax Reform Act of 1986, a comprehensive overhaul of the federal income tax system, eliminated or scaled back many of the provisions that encouraged tax sheltering in agriculture. Now, investment decisions in agriculture are based more on expected economic returns. For some farm commodities, this should mean reduced investment, lower production, and higher commodity prices.

Other provisions in the 1986 tax law—such as reductions in marginal tax rates, elimination of the capital gains exclusion, the investment tax credit, and new restrictions on cash accounting practices—caused a shift in the distribution of federal income taxes paid by farm sole proprietors.

Now, larger producers pay more. Prior to the Tax Reform Act, farmers with over \$100,000 in gross sales, roughly 9 percent of all farm sole proprietors, paid an estimated 13.8 percent of the federal income taxes for farm sole proprietors. After the Tax Reform Act, this share increased to an estimated 16.5 percent.

Trade Role Will Be Critical

Last year, 15-20 percent of U.S. output from the farmgate was sold abroad. But world commodity markets are increasingly distorted as more countries adopt import restrictions and export subsidies to facilitate their own domestic farm policies.

These protectionist policies, both in the U.S. and abroad, carry the risk of escalating conflict and uncertainty in world markets, as participants attempt to transfer to others the costs of maintaining or adjusting domestic policies. For the U.S., the resulting instability lends itself to boom-or-bust years in which the economic well-being of less competitive farmers depends critically on U.S. taxpayers' willingness to support domestic farm programs.

The current GATT trade negotiations recognize for the first time that the relationship between domestic agricultural policies and agricultural trade policies is a legitimate subject for negotiation.

In a liberalized trading environment, U.S. farmers' incomes would hinge more on world market forces than on government programs that at times encourage excess output. And, in a world where agricultural markets are less distorted by protectionist policies, U.S. farmers could realize more opportunities to compete.

Farm-Dependent Areas at Stake

Public policies that influence the U.S. farm sector also indirectly affect the 514 U.S. counties where farming dominates the economy—less than a fifth of all U.S. counties. These counties, where at least 20 percent of total labor and proprietor income is from farming, are predominantly in the sparsely settled Plains and western Corn Belt and were the most affected by the eighties farm financial contraction.

These counties remain vulnerable because they are dominated by commodities most susceptible to fluctuations in international trade, such as wheat and corn. And they lack the industrial diversity that can cushion local economies from fluctuations in a primary industry.

Most farming-dependent counties have experienced low population growth or actual declines in population. In some, the population peaked at the turn of the century and has been receding ever since. Because of the specialization in federal program commodities, farmers in farming-dependent counties rely more on government support than do farmers in other areas.

Further farm consolidation into the 1990's will make population retention even more difficult in many of these counties, unless nonfarm jobs can be expanded to help offset job losses in farming. Some farming-dependent communities will have difficulty furnishing the services necessary to maintain a community identity. This portends further community consolidation, particularly in the Great Plains.

Elsewhere, in the majority of rural communities, farming is no longer the cornerstone of the local economy. Farming is still present, but its economic influence has been eclipsed by manufacturing and other activities.

While some observers point out that farm input dealers and processing businesses in local communities depend on the wellbeing of the local farm sector, this argument is tempered by the fact that much farm input and processing employment now is based in metropolitan areas.

Thus, those who argue that keeping the farm sector strong will preserve rural America must realize that this now applies to only a few rural places, and among a very small part of the rural population. Farm policy is not synonymous with rural policy. [Sara Mazie and Tom Carlin (202) 786-1527]

Liberalizing World Trade in Meats

This is the sixth in a series summarizing research on what could happen if negotiations under the General Agreement on Tariffs and Trade (GATT) led to totally free agricultural trade in industrial market economies. Negotiators at the April 1989 review of the Uruguay round agreed to "substantial progressive reductions in agricultural support and protection over an agreed period of time, resulting in correcting and preventing restrictions and distortions in world agricultural markets."

While there are adjustment costs, both theory and research results suggest that the benefits of free trade outweigh the costs. But because there never has been free trade in agriculture, the findings in these articles are, of necessity, speculative. The results here come from research conducted by the Economic Research Service, universities, and international organizations. Longer, in-depth reports lie behind the articles, and will be available from the authors.—Ed.

ost of the changes in global beef, pork, and poultry markets that would flow from phasing down world-wide government support and protection of agriculture would come indirectly from changes in feed and dairy markets. Globally, only soybean growers now get less direct support than meat producers, although government intervention in meat markets is high in several countries.

As trade liberalization progressed, global meat production would not change significantly, as increases in some countries would offset declines in others. In the U.S., meat output would expand as prices rose slightly in response to greater domestic and export demand. Grain-fed beef output would rise relative to grass-fed.

Beef output would rise in Australia, Brazil, and Argentina, while pork production would go up in South Korea and Taiwan. Farmers in Thailand and Brazil would raise and export more poultry. Less meat would be produced and more imported in Japan and the EC.

World trade in meats would increase slightly as countries loosened trade barriers. The five regions most active in international meat markets would continue to dominate; they currently account for over three-quarters of the world's meat trade.

In part because meat is highly perishable, international trading requires a fairly well developed infrastructure. So, the major players in the world's markets are a small number of higher income countries. Nonetheless, significant quantities of low-priced poultry meat flow to lower income countries.

By restricting supplies, government protection often drives a wedge between consumer prices and the prices which would



exist under free trade. In general, consumer prices for most meat products freely traded would drift downward, and international trading prices would go up slightly as support and protection were phased down. But differences in quality, consumer tastes, and food safety regulations could limit price impacts on some meats in some countries.

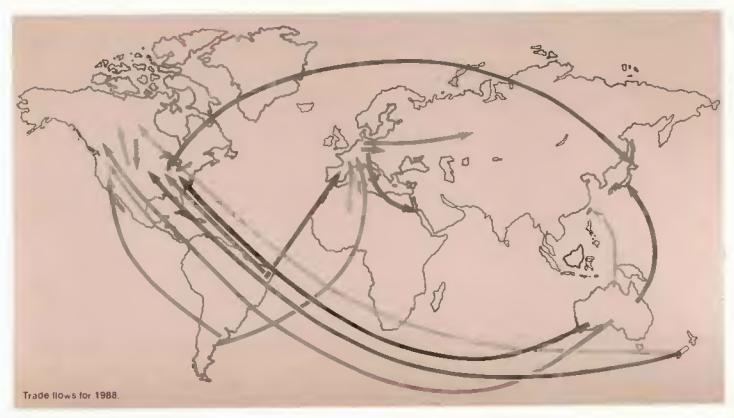
In the EC and Japan, where meat producers are heavily protected, the per unit revenues received by growers would drop. U.S. producer prices likely would go up slightly because of greater export demand for all U.S. meat, and lower imports of pork. Even though the cost of some feed grains would rise, returns to U.S. meat producers should go up slightly.

Health Regs, Quality, & Taste Govern Trade Flows

Aside from the basic differences among the animal products, meat trade is further distinguished by sanitary and phytosanitary restrictions. For example, red meat from areas where foot and mouth disease (FMD) is endemic cannot be shipped to FMD-free areas (Australia, New Zealand, Japan, Taiwan, South Korea, Denmark, Ireland, Great Britain, and North and Central America) unless it is cooked and sealed in airtight containers.

Although GATT contracting parties are working to establish guidelines and standards to harmonize animal health regulations, it is premature to assume that the FMD regulations will change. In mid-February, the U.S. called for a major international veterinary organization to establish a work program that would develop guidelines on FMD trade restrictions. The guidelines likely will depend on determining what is an acceptable risk to animal health.

Major Beef Trade Flows



Quality and consumer tastes also help shape meat trade. Pork tends to be fattier in Eastern Europe, the Soviet Union, and China. This meat is less desired in the EC and the U.S., limiting trade between the two groups.

Beef can be either grain-fed, as is most common in North America and Japan, or grass-fed, as in most of the rest of the world. Grain-fed beef has more fat marbling. Reflecting these differences, the U.S. is the largest beef importer, using imported grass-fed beef for hamburger, and concurrently the sixth largest exporter, shipping grain-fed beef to Japan and supplying the hotel, restaurant, and institutional market in the rest of the world.

Meat Producers Receive Less Subsidies

As measured by producer subsidy equivalents (PSE's) for 1982-86, government support for meat producers worldwide accounted for about 21 percent of their revenues. Government support was responsible for about 31 percent of beef producers' revenues, 19 percent of poultry growers', and 14 percent of pork producers'.

PSE's, a means of comparing commodity subsidies and trade barriers across nations, are defined as the income subsidy that would be needed to compensate producers for removing support provided through government programs and policies. For comparison, food grain producers received about 34 percent of their revenue through government supports during 1982-86, and dairy producers received 56 percent.

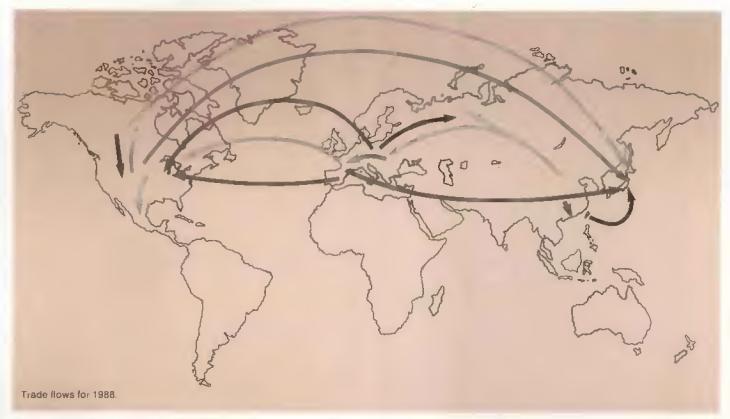
Most countries subsidize producers through either price or income supports. Even in those countries where there is little direct intervention, government policies in the grain sector most often spill over into the meat sector. However, Korea's pork and Argentina's and Brazil's beef producers and exporters are actually taxed to subsidize consumers.

Canada offers direct payments to pork and beef producers and sets poultry prices, maintained by regional output quotas. Policies subsidizing grain shipments to feed-deficit regions in the eastern provinces encourage meat production there.

Although there is no direct price support program for meat in the U.S., government intervention has an impact throughout the meat sector. Grain and protein meats are the largest per-unit inputs in meat production; expectations of feed costs play a major role in producer decisions. In addition, government studies indicate that the cost of the federal grazing program exceeds the revenues received.

Canada and the U.S. have several border measures which provide protection to meat producers. Beef imports on both sides are covered by both tariffs and nontariff barriers. U.S. pork and hog imports from Canada are subject to a countervailing duty estab-

Mojor Pork Trade Flows



lished to offset the effects of Canadian government programs. U.S. poultry exports are aided to varying degrees by the Export Enhancement Program, while Canadian poultry imports are restricted by a quota.

The Australian and New Zealand governments currently offer no direct support to beef producers. Although New Zealand has a history of government intervention, these supports were largely eliminated in the early 1980's. Both countries offer promotion services. However, the Australian Meat and Livestock Corporation intervenes in the slaughter and processing industry by distributing foreign export quota markets among beef packers.

EC and Japan Protect Producers the Most

Both the EC and Japan protect their producers by establishing intervention prices and restricting imports with either tariffs or quotas. In both, much of the beef production is an offshoot of dairy production, and so heavily influenced by dairy policy. Dairy policies often encourage milk production, boosting the size of the cattle herd and increasing the supply of beef.

In the EC, price support levels are based on the costs of producing a commodity, while variable import levies are calculated to force imports to enter the EC at prices slightly above the cost of domestic production. To maintain prices during periods of overproduction, the EC has storage provisions and offers export subsidies to permit EC producers to compete at world prices.

Japanese intervention follows much the same path as that of the EC, but without tariffs on feed imports. Beef imports have been restricted by a quota and also by a 25-percent tariff. The Livestock Industry Promotion Corporation (LIPC), a quasi-governmental purchasing agency, administers the majority of the quota to support its domestic price stabilization programs.

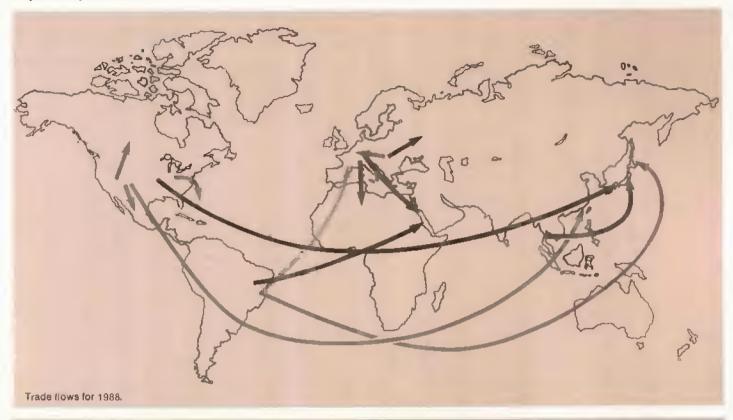
However, under the 1988 U.S.-Japanese Agreement on Beef and Citrus, both the quota and the LIPC's involvement with imports are being phased out, to be replaced by a tariff in 1992. This feature of the agreement, proposed by the U.S., is an example of "tariffication"—conversion of a nontariff barrier to a tariff. Tariffication plays a key role in the U.S. trade liberalization proposal at the GATT (see the December 1989 Agricultural Outlook).

Japanese pork and poultry imports are currently protected by tariffs. Pork import prices are keyed off the midpoint of the price stabilization levels established by the LIPC. Imported pork cuts of higher and lower value are blended by the trader to meet that stated import price minus a 5-percent tariff. Japan applies a tariff of 10-12 percent to poultry imports.

North American Output, Trade Would Rise

U.S. beef, pork, and poultry producers would be faced with slightly higher grain costs under trade liberalization, which could

Major Poultry Trade Flows



The Evolving Trade Lib Proposals

The GATT proposals put on the table prior to the midterm meeting in Montreal in late 1988 represented a spectrum of approaches to trade reform. They ranged from the U.S. proposal, which called for elimination of all trade-distorting subsidies and trade barriers over 10 years, to the EC proposal, which recommended short-term support cuts and rebalancing support between commodities, but did not address long-term issues.

The trade liberalization research by analysts at the Economic Research Service has examined the impact of completely removing trade-distorting government policies in developed countries.

The ERS commodity-specific studies, which have been covered in Agricultural Outlook, are based on this premise. The results of this work are primarily qualitative in nature, and the predicted direction of changes in production, prices, and trading patterns also would be consistent with less-than-complete trade reform. With only partial liberalization, the magnitudes of change would be smaller than those forecast in the studies.

The most recent U.S. proposal, submitted last October, spells out potential categories of government policies affecting agri-

culture more fully than previous U.S. statements. Agricultural programs currently in use are divided into three categories: (1) those to be phased out over a certain period (termed red-light policies), (2) those permitted because they are not tied to production and marketing and are the least trade-distorting (green-light policies), and (3) those to be subject to increased discipline under GATT rules (yellow-light policies).

Important red-light policies include administered pricing systems and output-linked income support programs, and subsidies provided for production and marketing that are not distributed equally to all agricultural producers and processors. In addition, the U.S. is proposing that all countries phase out export subsidies, prohibitions, and restrictions. Nontariff border measures also would be converted to tariffs and then phased out.

The U.S. proposal permits green-light policies that do not disrupt trade and that also fulfill nonagricultural objectives. These policies include income support payments not linked to price or output, environmental programs, disaster assistance and food aid, general services (such as research and education), asset retirement, and nondistorting food reserve programs.

Programs that do not fit into red- or green-light categories are to be disciplined by stronger GATT rules, and could be monitored by an aggregate measure of support.

Special Article

increase the cost of raising meat. This could be offset by higher meat prices, though, and also by producers' altering feed rations to take advantage of lower oilseed prices. So, U.S. output likely would go up.

Canadian producers would face lower revenues, as support payments, grain transportation subsidies, and poultry import quotas were phased down. As a result, production of all meats probably would drop in Canada.

The structure of red meat production most likely would change as well. Removing Canadian grain transportation subsidies could shift pork and beef production to western Canada. In both countries, a reduction in milk prices likely would continue the trend toward a declining dairy herd. Therefore, the proportion of fed beef output in North America relative to nonfed probably would increase.

In the absence of U.S. nontariff barriers and Canadian beef import quotas, imports of non-fed beef from Australia and New Zealand into North America could increase in response to lower production of manufacturing (dairy) beef. Brazilian and Argentine uncooked beef would remain shut out of North America because both countries are FMD-endemic and can ship only cooked meat packed in airtight containers to FMD-free regions.

The change in the North American pork tariffs would have little impact on pork trade from outside North America, but lower Canadian pork production would push down Canada's exports to the U.S. Regional shifts in Canadian pork production might lead to bilateral trade, with the U.S. exporting to eastern Canada and western Canada exporting to the U.S. West Coast.

U.S. and Canadian pork imports from Denmark would drop as EC export subsidies were phased out, but trade with both the EC and Eastern Europe in niche products (i.e., specialty hams) would continue.

U.S. poultry production likely would continue growing relative to other meats. But, in the absence of border measures and production quotas, Canadian domestic broiler prices would decline to match U.S. prices and Canadian production would drop. Canadian purchases of U.S. poultry would increase if import quotas were phased down. U.S. exports to Japan probably would go up, although the gain could be small if Japan continues to invest in poultry production facilities in countries like Thailand.

EC Production, Exports Would Decline

Production of all meats in the EC likely would decline because of trade liberalization. The impact of trade liberalization on EC beef production would depend on changes in both dairy policies and land values, but the high cost structure and relative inefficiency of dual dairy/beef breeds would result in at least a modest production reduction.

Pork output in the EC would decline. Smaller pork producers, for whom feed is a smaller percentage of total unit costs, would be less cushioned by lower feed prices. Faced with lower pork prices, they likely would consolidate or leave the industry. Larger producers, concentrated in northern Europe, would be constrained from expanding by stringent regulations on animal waste.

EC poultry production probably would decline modestly in response to lower prices. However, the lower prices would be offset to some extent by lower feed prices.

Concurrently, consumer prices of all meats in the EC likely would go down. Domestic consumption would go up, although the increase for each type of meat would depend on changes in relative prices.

Because of lower output and increased demand, EC exports of all meat would decline. Less production would mean a greater percentage of meat moving into domestic channels. Aside from niche markets where EC producers can command a premium price, phasing down export subsidies would make EC meats less competitive in a number of foreign markets.

Phasing down tariffs also would open the EC to more imports. Reduced domestic supplies would offer a market for exports of Eastern European pork along with South American beef to FMD-endemic EC countries. Although increased sales from Eastern Europe would provide those countries with needed foreign exchange, exports would have to be balanced against any domestic shortages.

Japan's Output Would Fall Sharply

Japan's meat production would fall as import constraints were phased down. Meat prices would drop to near world levels and the price for imported feed would increase under trade liberalization. Because Japan's meat producers run small-scale operations that are relatively inefficient, a substantial number would either leave the industry or consolidate.

Imports of all meats would expand dramatically. Japanese businesses have invested in pork production facilities in Taiwan and in poultry facilities in a number of countries. In addition, the Japanese have begun investing in beef operations in Australia and in both beef and pork plants in the U.S.

Japan would import more beef from Australia and the U.S. Currently, Australia exports grass-fed beef to Japan and the U.S. while the U.S. exports high-quality grain-fed beef to Japan. If Australia were able to increase its feeding industry, it could respond to Japanese demand for high-quality beef.

Japan's pork imports would go up as well. Denmark and Taiwan are currently the major suppliers to Japan, but their ability to maintain market shares as Japan's purchases rose would be limited by environmental constraints. The U.S. and Canada are now

	Produc	tion	Impor	ts	Ехро	rts
Market and country/region	Quantity	Market share	Quantity	Market Share	Quantity	Market share
Beef	1,000 m. tons	Percent	1,000 m. tons	Percent	1,000 m- tons	Percent
U.S. Soviet Union EC-12 Argentina Brazit Australia Canada Japan New Zealand Egypt World	10,879 8,465 7,605 2,610 2,500 1,533 973 973 569 562 450	24 19 17 66 32 1	1,091 117 515 20 154 378 150 2,930	37 18 1 1 5 13	313 784 319 540 890 86 435 4,096	8 <1 19 8 13 22 2
Pork China EC-12 U.S. Soviet Union Poland Japan E. Germany Canada Taiwan Wong Kong	20,170 12,504 7,114 6,476 1,828 1,578 1,414 1,188 911 34 62,164	32 20 11 10 3 3 2 2	45 5 16 218 6 461 7 16 223 1,633	3 32 13 41 28 41	230 471 88 5 76 270 319 178 2,075	11 23 4 <1 13 15
Poultry U.S EC-12 Soviet Union China Brazil Japan Mungary Romania Saudi Arabia Wong Kong	9,428 5,928 3,184 2,400 1,997 1,471 465 370 248 35	29 18 9 7 6 5 1	111 179 24 272 7 194 153	21 11 15 12	382 411 1 92 240 234 125 3 27	22 24 <1 6 14 13 7 <1 2
orld	32,628		1,274		1,747	

Country/Region	8eef	Pork	Poultr
		Percent	
lustralia -	6.4	**	
razil	-33.1	**	6.2
anada	9.9	10.7	16.7 28.7
C-10	44.6	15.1	28.7
apan	59.0 12.1	47.5	22.6
lew Zealand			**
outh Korea	66.4	-1.2	41.5 23.4
ajwan	18.4	1.9	23.4
l.S.	8.7	5.8	8.3

the third and fourth largest suppliers to Japan; each could increase its market share if processors were willing to meet Japanese cutting specifications.

Thailand probably would garner the major portion of increased Japanese demand for poultry imports. Fueled by substantial multinational investment, the Thai poultry industry's production and exports have grown rapidly. Moreover, Thailand's low labor costs have given it an advantage in producing deboned chicken, an item highly prized in Japan.

Both Australia and New Zealand likely would benefit from more vigorous U.S. and Japanese meat demand. However, in both countries beef competes with sheep for rangeland, so changes in production would also depend on changes in the price of beef relative to wool. [Shayle Shagam (202) 786-1767, Stephanie Mercier (202) 786-1840, William Hahn (202) 786-1712, Lee Christensen (202) 786-1714, and Larry Witucki (202) 786-1714]

Statistical Indicators

Summary Data

Table 1.—Key Statistical Indicators of the Food & Fiber Sector _

			1989				11	990	
	1	1	10	IVF	Annual F	IF	ll F	111 F	Annual F
Prices received by tarmers (1977=100) Livestock & products Crops	150 159 140	148 156 141	145 159 130	147 166 128.	148 150 135	144 181 128	140 1 54 126	_	137 150 122
Prices paid by farmers, (1977=100) Production items Commodities & services, interest, taxes, & wages	1 64 175	168 177	156 178	165 ¹ 178	165 177	_	=		163 180
Cash receipts (\$ bit.) 1/ Livestock (\$ bit.) Crops (\$ bit.)	156 84 71	161 81 80	170 81 68	145 84 61	158 83 75	164 89 74 ₉	156 79 86	=	160-163 80-83 77-80
Market basket (1982–84=100) Retail cost Farm value Spread Farm value/retail cost (%)	122 107 131 30	124 108 133 30	125 107 135 30	127 108 137 30	125 107 134 30	Ξ		, <u></u>	
Retail prices (1982-84=100) Food At home Away from home	123 122 125	125 124 127	128 125 128	127 126 130	125 124 127	=	=		Ξ
Agricultural exports (\$ bil.) 2/ Agricultural Imports (\$ bil.) 2/	10.9 5.8	9.8 5.5	8.8 5.0	10.0 5.2	39.7 21.5	10.5 5.7	8.8 5.3	8.8 4.8	38.0 21.0
Commercial production Red meat (mit. lb.) Poultry (mil. lb.) Eggs (mil. doz.) Milk (bil. lb.)	9.594 5,070 1,389 38,8	9.870 5,539 1,394 38.0	9.847 5.704 1.389 35.5	10,106 5,725 1,414 35,2	39,417 22,037 5 ,586 145,3	9,680 5,555 1,400 36.6	9,842 5,940 1,410 38,8	9,920 6,020 1,420 36,7	39.595 23.420 5.700 148.1
Consumption, per capita Red meat and poultry (lb.)	52.8	54.5	55.2	57.5	220.0	53.7	55.1	55.9	222 5
Corn beginning stocks (mil. bu.) 3/ Corn use (mil. bu.) 3/	7,071.6 1,868.3	5,203. 9 1,785.8	3,419.0 1,489.3	1,930.0 2,378.9	4,259.1 7 .522 .3	7,079,1	_	=	1.930.4
Prices 4/ Choice steers—Omaha (\$/cwt) Barrows & gilts—7 mkts. (\$/cwt) Broilers—12-city (cts./lb.) Eggs—NY gr. A large (cts./doz.) Mik—all at plant (\$/cwt)	73.67 40.78 59.4 78.4 13.07	73.85 41.84 67.1 75.2 12.27	70.09 46.07 59.7 81.5 13.27	72.46 47.42 49.8 92.6 15.43	72.52 44.03 59.0 81.9 13.51	74-78 48-50 49-53 83-87 14 35- 15.35	70-76 50-56 50-56 74-80 11.15-	68-74 49-55 52-58 62-68 10.90-	71-77 47-53 49-55 69-75 12.00-
Wheat—KC HRW ordinary (\$/bu.) 'Corn—Chicago (\$/bu.) Soybeans—Chicago (\$/bu.) Cotton—Avg. spot mkt. (cts./lb.)	4,34 2,72 7,83 58,2	4.44 2.76 7.39 63.1	4.31 2.49 6.71 68.6	4.34 2.38 5.70 67.1	4.35 2.55 8.70 63.74		12.15	11.90	13.00
	1982	1983	1984	1985	1986	1987	1988	1989	1990 F
Gross cash income (\$ bit.) Gross cash expenses (\$ bit.)	150.6 112.8	150.4 113.5	155.3 118.6	156.9 110.2	152.5 100.7	182.0 107.5	171.6 114.4	174 121	173-178 119-122
Net cash Income (\$ bil.) Net farm income (\$ bil.)	37.8 23.5	36.9 12.7	38.7 32.2	46.7 32.4	51.8 38.0	54.5 43.8	57.2 42.7	53 48	52-57 44~49
Farm real estate values 5/ Nominal (\$ per acre) Real (1977 \$)	823 513	788 472	801 459	713 395	640 346	599 317	832 322	86 7 325	705 –72 0 328–334

^{1/} Quarterly data seasonally adjusted at annual rates. 2/ Annual data based on Oct-Sept fiscal years ending with year indicated. 3/ Dec-Feb. first quarter; Mar.-May second quarter; June-Aug. third quarter; Sept.-Nov. fourth quarter; Sept.-Aug. annual. Use includes exports & domestic disappearance. 4/ Simple averages. 5/ 1981 & 1986-89 values as of February 1, 1982-85 values as of April 1, F = forecast, -- = not available.

Table 2.—U.S. Gross National Product & Related Data _

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	13.9 P 1
	7.5 P
851 22	887.6 2,9 5,084 15 1,622 11 1248.5 2 246.2 2 1989 Oct 141.8 1 144.5 117.6 5.2 505.5 4.5 173.3 3.1 8.92 1,423 8 1.53 143.4 148.8 1.53 143.4 148.8 8.9.4 30.0 5 30.0 5 30.0 5 5 1.53 143.4 148.8 1.53 143.4 148.8 1.53 143.4 148.8 1.53 143.4 148.8 1.53 143.4 148.8 1.53 143.4 148.8 1.53 143.4 148.8 14.5 143.0 15 143.4 148.8 14.5 143.0 15 143.4 148.8 14.5 143.0 15 143.4 148.8 14.5 143.0 15 143.4 148.8 14.5 143.0 15 143.4 148.8 14.5 143.0 1

^{1/} Annual data as of December of the year listed. 2/ Private, including farm. P = preliminary. — = not available.

Table 3.—Foreign Economic Growth, Inflation, & Export Earnings_

	1981	1982	1983	1984	1985	1986	1987	1988	1989 P	1990 F	1991 F	Average 1980-89
World, less U.S.					Annu	Jal percent	change					
Real GDP	4.5											
	1.5	0.6	2.0	4.5	3.6	3.0	3.6	4.3	3.7	3.4	3.6	2.9
Consumer prices	15.0	13.7	14.3	11.8	11.3	8.1	10.1	14.7	20.9	17.8	8.1	13 6
Merch, exports	-2.7	-6.7	-2.7	5.7	1.9	10.9	18.4	13.3	7.9	8.2	10.2	6.8
Developed less U.S.	4 -											0.0
Real GDP	1.2	0.2	2.2	4.6	3.5	2.7	3.4	4.2	3.6	2.9	3.1	2.8
Consumer prices	10.0	7.8	5.8	4.7	4.2	2.5	28	3.1	4.4	3.5	3.3	5,7
Merch, exports	-3.2	-4.4	-0.5	8.9	4.8	19.5	17.7	12.5	6.4	9.5	10.5	7.6
Developing										0.0	10.0	7.0
Real GNP	20	1.8	1.5	4.0	3.8	3.7	4.5	3.7	3.9	4.2	5.3	3.4
Consumer prices	28.4	30.0	39 5	35.1	35.3	27.0	35.8	58.3	57.7	49.5	18.9	37.5
Merch, exports	-1.8	-10.4	-6.5	4.5	-3.1	-5.9	20.2	15.3	12.1	6.0	10.0	5.0
Asia, incl. China									1 4 7	0.0	10.0	5.0
Real GDP	6.1	5.5	7.7	7.3	7.0	6.1	7.0	9.2	5.5	5.4	7.2	4.7
Consumer prices	9.3	5.8	6.2	8.7	7.2	6.3	7.4	11.9	9.9	8.2	10.4	6.7 8.3
Merch, exports	7.6	-0.5	4.8	14.6	-0.9	9.4	29.4	23.1	13.0	9 1	11,1	12.8
Latin America							20.4	40.1	13.0	D 1	1.1.1	12.0
Real GDP	-0.4	-1 5	-2.6	3.3	3.4	3.6	3.1	1.0	0.5	3.4	5.7	4.0
Consumer prices	60.1	73.6	118.9	116.5	127.7	82.4	116.3	212.2	340 4	304.3	81.2	1.6
Merch, exports	6.5	-10.8	-1.0	6.8	-7.8	-14.5	9.1	17.0	10.4	-0.7		130.3
Africa						1-4.0	0.1	17.0	10.7	-0.7	3.7	4.6
Real GDP	-1.9	0.6	0.0	-0.3	3.9	-1.0	1.3	2.2	2.5	1.7	0.4	
Consumer prices	23.4	14.1	19.7	19.1	11.9	12.6	12.3	15.7	18.8	14.8	2.4	1,6
Merch, exports	-19.7	-9.1	-8.0	3.4	1.0	-22.1	18.8	-3.8	7.8	-2.5	13.1	18.0
Middle East			- 14	0.1	*	and a	1070	-00	7.0	-2.5	5.2	0.3
Real GDP	2.7	3.7	0.5	1.0	-1.8	2.0	1.5	1.4	6.9	4.0	4.4	
Consumer prices	16.8	14.0	14.5	19.6	13.8	10.8	12.9	19.6	21.4		4.1	1.8
Merch, exports	-3.8	-21.1	-22.2	-10.5	-6.8	-19.2	16.0	0.9	31.2	18.0	17.B	16.1
Eastern Europe, incl. US	SR				-0.6	-10.2	10.0	0.0	31.2	-2.8	12.4	-1.3
Real GDP							1.1	2.8	4.2		4.0	
Consumer prices							1.1	2.0	1.3	1.2	1.9	1.7
Merch, exports					-8.1	-3.2	12.8	7.9	4.5	0.5	4.0. 4	
					-0.1	-3.2	12.0	7.9	1.8	3.5	10.4	2.2

P = preliminary. F = forecast. --- = not available.

Information contact: Alberto Jerardo, (202) 788-1705.

Farm Prices

Table 4.—Indexes of Prices Received & Paid by Farmers, U.S. Average

		Annual					1989				199
	1987	1988	1989	Jan	July	Aug	Sept	Oct	Nov	Dec A	Jan I
ces received					t	977=100					
l farm products	407	426	4.47	440	4.47			4 . 4			
	127	138	347	149	147	145	143	145	147	149	15
All crops	108	127	134	141	137	128	126	128	128	127	13
Food grains	103	138	158	160	153	152	151	152	150	153	15
Feed grains & hay	85	120	128	137	126	120	120	118	11B	119	11
Feed grains	81	117	123	133	122	,116	114	112	113	114	11
Cotton	99	95	89	90	98	99	106	109	108	102	9
Tobacco	133	138	138	128	143	142	148	146	144	144	14
Oil-bearing crops	79	108	102	116	105	94	69	87	89	90	
Fruit, all	182	184	190	183	178	182	199	208	208	182	16
Fresh market 1/	196	196	200	192	185	190	210	221	219	186	16
Commercial vegetables	148	144	150	189	168	140	133	143	139	149	2
Fresh market	147	137	146	186	165	131	121	132	12B	134	24
Potatoes & dry beans	128	124	187	186	261	194	137	136	168	178	18
Ivestock & Products	148	150	160	158	157	161	160	162	165	170	17
Meet animats	163	168	174	174	174	177	172	174	175	180	ii
Dairy products	129	126	139	138	130	136	144	151	160	166	- 10
Poultry & eggs	107	118	138	129	138	139	139	129	134	138	13
es paid	101	, (0	130	12.4	100	128	120	124	1-34	130	14
ommodities & services.											
ferest, taxes, & wage rates	162	169	177	175	178	_		178			
oduction items	147	157	185	164	168						18
bed	103	128	135	140		_	_	165	-	_	10
eeder Investock	179	192	194	202	133	_	_	128	-	_	13
eed .	148	150	165		193		_	196			20
ertilizer	118	130	137	150 133	170	****		170	_	_	17
eruizer gricultural chemicals					141		_	131		_	13
	124	126	132	128	133		_	134	_	_	13
uela & energy	161	163	160	165	188	-	-	183	_	-	20
arm & motor supplies	145	148	155	153	155			155	_		11
utos & trucks	208	215	223	216	225	_		225	-		23
ractors & self-propelled machinery	174	181	193	188	192	_	_	199	-		16
ther machinery	185	197	208	203	209	_	_	210		_	21
Brighes & tencing	137	138	141	139	141	-	-	143	_	_	14
arm services & cash rent	146	147	158	158	151			158	_		16
erest payable per acre on farm real estate deb	189	182	177	177	190			177	_		17
xas payable per acra on farm resi estate	144	148	152	152	144	_	_	152			15
age rates (seasonally adjusted)	166	171	165	186	191	_	_	179	-	_	17
oduction fiems, interest, tutes, & wage rates	151	160	167	166	167	_	_	166	_	_	16
io, prices received to prices paid (%) 2/	79	82	B3	85	83	81	81	81	83	84	8
:88 received (1910-14=100)	579	633	673	683	673	662	656	662	672	561	
en paid, etc. (parky index) (1910-14=100)	1,111	1.165	1,220	1.207	1,227			1.224			1,24
	7 4 5 7					_	-				1 24

1/ Fresh market for noncitrus; fresh market & processing for citrus. 2/ Ratio of index of prices received for all farm products to Index of prices paid for commodities & services, interest, taxes, & wage rates. Ratio uses the most recent prices paid index. Prices paid data are quarterly & will be published in January, April, July, & October. P ≈ preliminary. R = revised. → = not available.

Table 5,—Prices Received by Farmers, U.S. Average

		Алпца	1/	_			1989			1990
Crops	1987	1988	1989 P	Jan	Aug	Sept	Oct	Nov	Dec P	Jan P
All wheat (\$/bu.) Rice, rough (\$/cwt) Corn (\$/bu.)	2.57 7.27 1.94	3.72 6.83 2.54	3.80-3.90 7.00-8.00 2.20-2.40	4.02 8 58 2.60	3 74 7.33 2 27	3.72 7.55 2.27	3.75 7.54 2.22	3.71 6.94 2.24	3.80 6.95 2.27	3.83 7.11 2.26
Sorghum (\$/cwt)	3.04	4.05	3.57-3.93	4.09	3.81	3.80	3.61	3 68	3.53	3.63
All hay, baled (\$/ton) Soybeans (\$/bu.) Cotton, upland (cts./lb.)	64. 76 5.88 64.3	86.74 7.42 56.6	5.35-5.65 5/ 67.3	89.50 7.69 60.5	82.70 6.07 61.1	84.80 5.70 63.8	85.70 5.28 64.1	83.60 5.64 65.8	84.20 5.64 61,4	85.00 5.52 60.2
Potatoes (\$/cwt) Lattuce (\$/cwt) Tomatoes fresh (\$/cwt) Onions (\$/cwt) Dry edible beans (\$/cwt)	4 38 14.70 26.00 12.50 16 50	6.02 14.70 26.90 9.72 29.80	6.85 13.60 31.80 10.70 27.90	6.24 18.60 43.40 11.70 30.20	7.57 10.50 22.40 15.80 27.60	5.62 12.60 23.10 9.55 25.00	4.97 14.50 29.00 11.40 25.40	6 55 13.30 26.20 11.30 27.70	7.02 7.06 40.30 12.40 27.80	7.34 14.10 107.00 11.30 30.30
Apples for fresh use (cts./lb.) Pears for fresh use (\$/ton) Oranges, all uses (\$/box) 2/ Grapefruit, all uses (\$/box) 2/	12.7 227.00 5.40 4.96	17,4 358,00 7,18 5,43	360.00 6.89 4.50	18.1 336.00 6.38 4.35	16.1 398.00 3.91 5.63	19.1 382.00 5.62 6.10	15.9 387.00 6.22 8.18	13.4 369.0 6.47 5. 54	12.2 351.00 5.63 5.18	12,5 349,00 4,70 4,62
Livestock Beef cattle (\$/cwt) Calves (\$/cwt) Hogs (\$/cwt) Lambe (\$/cwt) Alt milk, sold to plants (\$/cwt) Milk, manuf, grade (\$/cwt) Broilers (cts./lb.) Eggs (cts./dc2,) 3/ Turkeye (cts./lb.) Wool (cts./lb.) 4/	61,40 78 10 50.80 77.90 12.54 11.37 28.3 53.1 34.3 91.7	68.80 89.90 42.50 69.50 12.24 11.15 34.0 53.2 6.9 138.0	69.70 91.90 43.20 67.30 13.51 12.47 36.4 69.6 40.2	70.80 92.80 40.90 67.40 13.40 12.20 35.3 63.9 35.4 107.0	69.70 94.20 45.70 66.60 13.20 12.20 36.1 71.0 41.3 105.0	68.20 91.10 43.40 65.90 14.00 13.10 37.1 71.0 37.3 97.7	67.40 90.20 46.80 63.10 14.50 13.60 30.6 71.3 38.5 100.0	69.80 86.70 45.00 58.70 15.50 14.80 29.8 78.8 40.9 100.0	71.00 89.10 48.20 59.00 16.10 15.10 28.6 82.8 39.6 80.5	71 80 90.20 46.90 57.40 16.10 14.90 30.7 83.8 35.9 65.8

^{1/} Season average price by crop year for crops. Calendar year average of monthly prices for livestock. 2/ Equivalent on-tree returns, 3/ Average of all eggs sold by producers including hatching eggs & eggs sold at retail. 4/ Average local market price, excluding incentive payments, 5/ Weighted average of first 5 months of the season – not a projection for 1989/90, P = preliminary, R = revised, — = not available.

Information contact: Ann Duncan (202) 786-3313.

Producer & Consumer Prices

Table 6.—Consumer Price Index for All Urban Consumers, U.S. Average (Not Seasonally Adjusted)

	Annual 1988						1989			
	1980	Dec	May	June	July	Aug	Sept	Oct	Nov	Dec
					1	982-84=10	0			
Consumer Price Index, all items Consumer Price Index, less food	124.0 123.7	120.5 120.4	123.8 123.5	124.1 123.9	124.4 124.2	124.8 124.3	125.0 124.8	125.8 125.4	125.9 125.6	126.1 125.8
Consumer Circa IDGOX, less rood	123.7	120.4	123.5	123.6	124.2	124.0	124.0	123.4	120.0	120.0
All food	125.1	120.7	124.9	125.0	125.5	125.8	126,1	126.5	126.9	127.4
Food away from home	127.4	124.1	126.7	127.1	127.8	128.1	128.8	129.1	129.5	129.0
Food at home	124.2	119.1	124.4	124.3	124.8	124.9	125.0	125.4	125.8	126.5
Meats 1/	116.7	112.7	115.6	116.1	116.7	117.5	117.7	118.1	119.3	120.0
Beef & veal	119.3	114.6	119 6	119.3	119.5	119.7	120.0	120.0	121 3	122.1
Pork	113.2	109.6	110.1	111.8	113.6	114.8	114.3	114.9	97.7	105.0
Poultry	132.7	127.1	137 3	140.1	138.1	138.2	134.0	131.2	126.8	127.8
Fish	143.6	138.9	142.3	142.9	142.3	145.2	146.9	143.9	142.0	143.0
Eggs	118.5	99.6	112.6	110.6	112.8	115.2	124. 8	122.9	129.4	,134.B
Dairy products 2/	115.6	111.4	113.8	113.6	114.1	114.5	116.1	118.2	120.2	122,0
Fate & oils 3/	121.2	118.5	121.6	121.6	121.6	121.7	121.3	121.6	121.0	121.6
Fresh fruit	152.4	143.2	158.1	151.7	150.8	151.4	155.1	156.6	152.7	154.8
Processed fruit	125.9	124.4	125.1	125.6	126.0	126.9	127.8	127.1	128 6	125.2
Fresh vegetables	143.1	133.0	153.2	150.8	150.8	145.1	133.9	134.8	141.9	136.5
Potatoes T	153. 5	128.5	164.0	172.5	180.7	182.3	153.1	139.8	135.0	140.0
Processed vegetables	124.2	118.9	124.9	125.5	126.3	125.9	125.0	124.6	123.8	124.8
Cereals & bakery products	132.4	126.6	131.5	132.1	133.3	134.1	134.6	135.0	135.3	136.1
Sugar & sweets	119.4	116.7	118.1	119.2	120.1	120.6	120.8	121.3	120.7	121.1
Beverages, nonalcoholic	111.3	107.8	111.5	111.6	112.3	111.2	111.0	111.8	111.2	111.0
Apparel										
Apparel, commodities less footwear	117.1	116.8	119.3	116.1	112.8	1128	118.9	121.8	121.1	117.6
Footwear	114.4	1135	114.9	114.0	113.4	112.6	114.1	117.6	118.6	114.7
Tobacco & smoking products	164.4	149.9	161.1	184.2	167.5	168.8	168.2	168 8	168.6	171.9
Beverages, alcoholić	123.5	119.9	123.1	123.5	124.0	124.5	124.8	125.2	125.5	125. 6

^{1/} Beef, yeal, lamb, pork, & processed meat. 2/ includes butter. 3/ Excludes butter.

Table 7.—Producer Price Indexes, U.S. Average (Not Seasonally Adjusted)_

		Annual		1988			1	989		
	1986	1987	1988.	Dec	July	Aug R	Sept	Oct	Nov	Dec
					1982 = 10	0				
Finished goods 1/	103.2	1054	108.0	110.0	114.1	113.4	113.5	114.8	114.8	115.3
Consumer foods	107.2	109.5	112.6	115.1	118.0	118.7	118.5	119.5	120.2	120.9
Fresh fruit	112.9 97.8	112.0 103.7	113.5 105.5	119.9 111.6	114.1 124.6	109 7 110,7	107.7 96.1	113.3 110.0	110.8	107.4 104.9
Fresh & dried vegetables Dried fruit	91.9	95.0	99.1	100.8	102.8	103.6	105.4	103.4	98.9 103.6	106.2
Canned fruit & juice	111.0	115.3	120.2	122.4	123.4	123.3	123.2	122.8	122.6	123.4
Frozen fruit & Juice	103.0	113.3	129.9	128.6	129.0	129.3	127.4	125.6	121.4	119.9
Fresh veg. excl. potatoes	99.3	99.0	100.4	96.7	110.5	96.3	81.5	101.0	84.1	88.0
Canned veg. & juices	101 2	103.5	108.3	117.3	118.9	118.5	119.8	118.0	117.7	118.5
Frozen vegetables	106.6	107.3	108.6	112.5	115.5	116.7	116.2	115.2	116.4	117.0
Potatoes	104.0	120.1	113.9	148.1	157.8	144 3	140.2	140.2	146.7	160.2
Eggs	99.5	87.6	88.6	100.3	111.0	116.7	124.6	124.3	134.5	141.3
Bakery products	116.6	118.4	126.4	130.6	135.3	137.1	137.9	137.9	137.2	137.6
Meats	93 9	100.4 95.5	99.9	99.0	105.8	106.0	105.2	104.8	107.1	108.4
Beef & yeal	88.1 99 9	104.9	101.4 95.0	104.8 87.6	108.1 101 9	109.0	107.6	105.1 102.2	108.9 103.6	111.0
Pork Processed poultry	116.7	103.4	111.6	115.3	125.9	100.4 121.2	99.3 120.2	113.7 -	112.3	104.6 110.2
Fish	124.9	140.0	148.7	151.8	137.3	135.6	137.7	148.7	146.5	143.2
Dairy products	99 9	101.6	102.2	108.2	107.8	110.7	112.9	110.5	120.4	121.4
Processed fruits & vegetables	104.9	108.6	113.8	118.5	120.8	121.2	120.9	120.2	120.0	120.8
Shortening & cooking oil	103 3	103.9	118.8	118.6	117.1	114.0	115.5	114.6	117.5	115.8
Consumer finished goods less foods	98.4	100.7	103.1	104.8	109.8	108.6	109.0	110.3	109.8	110.4
Beverages, alcoholic	110.1	110.3	111.8	112.0	116.9	117.2	114.2	114.5	114.7	114.5
Soft drinks	109.5	111.8	114.3	115.4	117.5	115.6	115.8	117.5	118.2	118.0
Apparel	106.3	108.3	111.7	113.1	114.2	114 9	115.0	115.2	115.4	115.5
Footwear Tobacco producte	106.8 142.4	109.3 154. 6	115.1 171.9	117.2 1 94.7	120.6 196.8	121.8 198.1	122.2 198.7	122. 6 200. 7	122.4 200.4	123.3 209.2
Intermediate materials 2/	99 1	101.5	107.1	109.4	112.5	112.0	112.4	112.3	112.2	112.0
Materials for food manufacturing	98.4	100.8	106.0	108.6	113.3	113.3	114.0	113.3	115.4	115.4
Flour	94 5	92.9	105.7	113.2	115.0	114.8	113.3	112.4	112.7	113.8
Refined sugar 3/	103.2	106.4	108.9	113.7	118.1	118.6	121.1	120.6	119.8	121.5
Crude vegetable oils	84 8	84.2	116.6	108.4	100.3	96.7	99.5	94.1	102.4	97.6
Crude materials 4/ Foodstuffs & feedstuffs	87.7 93.2	93.7 96.2	96.0 106.1	97.3 109.5	103.9 110.1	101.1 110.0	102.0 108.3	101.8 107.2	102.3 109.4	104.0 112.3
Fruite & vegetables 5/	103.9	106.8	108.5	114.7	119.4	109.7	100.7	110.9	103.6	105.5
Grains	79.2	71.1	97.9	108.9	105.1	100.3	100.1	98.2	101.1	101.0
Livestock	91.8	102.0	103.3	101 0	104.3	108.3	103.2	104.1	105.1	110.0
Poultry, live	129.6	101.2	121.5	121.7	135.5	125.4	134.9	109.0	111.8	104.3
Fibers, plant & animal	88.3	108.4	98.4	93.9	111.4	116.8	113.9	116.9	115.3	106 3
Fluid milk	90.9	91.8	89.4	97.0	92.1	98.1	100.7	105.1	110.5	115.6
Oilseeds	91.4	99.2	134.0	137.5	129.7	115.3	113.6	101.7	106.1	108.7
Tobacco, leaf	89.7	85.7	87.2	94.4	93.7	92.4	97.0	95.0	93.7	93.7
Sugar, raw cane	104.9	110.2	111.9	112.0	118.5	118.3	119.0	117.8	119.2	117.2
All commodities	100.1	102.8	106.9	109.0	112.7	112.0	112.3	112.7	112.7	113.0
Industrial commodities	99.9	102.5	106.3	108.1	112.2	111.4	111.9	112.4	112.2	112.3
All foods 6/	105.5	107.8	111.5	114.1	118.1	117.8	117.7	118.4	119.3	120.0
Farm products &	101.2	102.7	110.0	110.0	115.4	115.0	1144	114.2	115 4	110 5
processed foods & feeds Ferm products	101.2 92.9	103.7	110.0	112.9 108.9	115 4	115.0 109.3	114.4 107.3	114.3 106.9	115.4 108.5	110.5
Processed loods & feeds 6/	105 4	95.5 107.9	104.9 112.7	115.0	110.0 118.2	117.9	118.1	118.1	119.0	119.3
Cereal & bakery products	111.0	112.6	123.0	120.5	132.1	132.9	132.9	132.9	132.4	132.9
Sugar & confectionery	109.6	112.8	114.7	117.3	121.5	121.3	121.8	120.4	120.5	120.8
Beverages	114.5	112.5	114.3	115.8	119.3	118.3	117.1	117.5	117.7	117.7
	1170	112.0	117.0	110.0	110.0					

^{1/} Commodities ready for sale to ultimate consumer. 2/ Commodities requiring further processing to become finished goods. 3/ All types & sizes of refinished. 4/ Products entering market for the first time that have not been manufactured at that point. 5/ Fresh & dried. 6/ includes all raw, intermediate, & processed foods (excludes soft drinks, alcoholic beverages, & manufactured animal feeds). R = revised.

Table 8.—Farm-Retail Price Spreads

	Annual				1988	1989					
	1986	1987	1988	1989 P	Dec	July	Aug	Sept	Oct	Nov	Dec
Market basket 1/	106.3	111.6	116.5	124.6	119.5	125.2	125.4	125.5	125.9	126.6	127.4
Retail cost (1982-84=100) Farm value (1982-84=100)	94.9	97.1	100.5	107.4	103.0	108.4	107.0	106.0	108.1	109.2	109.3
Farm-retail spread (1982-84=100)	112.5	119.4	125.1	133.9	128.4	134.3	135 4	136.0	136.6	136.0	137.1
Farm value-retail cost (%)	31.2	30.5	30.2	30.2	30.2	30.3	29.9	29.6	29.5	30.2	30.0
Meat products Retail cost (1982–84=100)	102.0	109.6	112.2	116.7	112.7	116 7	117.5	117.7	118.1	119.3	120.0
Farm value (1982-84=100)	94.3	101.2	99.5	103.3	97.7	103.4	104.3	101.5	100.0	104.0	106.9
Farm-retail spread (1982-84=100)	109.8	118.3	125.2	130.4	128.1	130.3	131.1	134 3	135.8	135.0	133.4 45.1
Farm value-retail cost (%) Dairy products	46.8	46 7	44.9	44.8	43.9	44.9	44.9	43.7	43 2	44.1	43.1
Retail cost (1982-84=100)	103.3	105.9	108.4	115.6	111 4	114.1	114.5	116.1	118.2	120.2	122 9
Farm value (1982-84=100)	92.6	93.3	90.6	99.0	97.3	94.1	98.2	101.0 130.1	104.8 130.5	110.0 129.6	113 0
Farm-retall spread (1982–84=100) Farm value-retail cost (%)	113.3 43.0	117.5 42.3	124.7 40 1	130.9 41.1	124.4 41.9	132.6 39.6	129.5 41.1	41.7	42.6	43.9	44.1
Poultry	45.0		70 1	41.1	41.0	00.0	41.1				
Retail cost (1982-84=100)	114.2	112.6	120.7	132.7	127.1	138.1	136.2	134.0	131.2	126.8 100.8	127.8 96.7
Farm value (1982-84=100) Farm-retail spread (1982-84=100)	115.1 113.3	93.8 134.2	110 2 132.8	118.2 149.3	114.4 141.7	126.1 152 0	117.8 157.4	118.6 151.7	101 6 165.3	157.0	163.6
Farm Value-retail cost (%)	53.9	44.6	48.9	47 7	48.2	48.9	46.3	47.4	41.4	42.4	40.5
Eggs Retail cost (1982-84=100) Farm value (1982-84=100)										400.4	1040
Retail cost (1982–84=100)	97.2 92.4	91.5 76.8	93. 6 7 6.7	118.5 107.7	99.6 90.1	112.8 97.3	115.2 110 3	124.6 110.7	122.9 110.3	129.4 125.1	134.9 133.4
Farm value (1982-84=100) Farm-retail spread (1982-84=100)	106.0	117.9	123.9	137.7	116.7	140.7	123.9	149 6	145.5	137.1	137.6
Farm value-retail cost (%)	81.0	53.9	52.7	58.4	58.1	55.4	61.5	57.1	57.7	62.1	63.5
Cereal & bakery products	440.0	114.8	122 1	132.4	126.6	400.0	134.1	134 6	135.0	135.3	136.1
Retail cost (1982-84=100) Farm value (1982-84=100)	110.9 76.3	71.0	92.7	101.6	101.0	133.3 102.7	99 4	99 9	98.7	99.4	101.2
Farm-retail spread (1982-84=100)	115.7	120.9	128.2	136.7	130.2	137.6	138.9	139.4	140.1	140.3	141.0
Farm value-retail cost (%)	8.4	7.6	9.3	9.4	9.8	9.4	9,1	9. 1	9.0	8.0	9.1
Fresh fruita Retail cost (1982–84=100)	120.4	135,6	145.4	154 7	147.0	152.3	154.5	158 8	159.8	155.3	158.6
Farm value (1982-84=100)	103.8	113.9	116.5	108.2	108.6	104.5	107.4	126.6	131.6	128 2	109.2
Farm-retail spread (1982-84=100)	128.0	145.7	158.7	176.1	164.7	174.4	176.2	173.6	172 8	167.8	18 t.4 21.7
Farm value-retail cost (%) Fresh vegetables	27.4	26.5	25.3	22.1	23.3	21.7	22.0	25.2	26.0	26.1	41.7
Retail costs (1982-84=100)	107.7	121.6	129.3	143.1	133.0	150 8	145.1	133.9	134.8	141.9	138.5
Farm value (1982-84=100)	90.0	112.0	105.8	126 4	108.5	158.3	127.0	94.8	111.3	113.4	98.2
Farm-retail spread (1982-84=100)	116.8	126.5	141.3	151.7	145.8	147.0 35.6	154.4 29.7	154.0 24.0	146.9 28.0	156.5 27.1	156.2 24.4
Farm value-retail cost (%) Processed fruits & vegetables	28.4	31.3	27.8	30 0	27.7	33.0	20.7	24.0	20.0	27.1	47.7
Retail cost (1982-84=100)	105.3	109.0	117.6	125.0	121,9	126.0	126 3	126.4	125 9	125.0	124.9
Farm value (1982-84=100)	101.5	111.1	136 6	134.7	137.9	136.7	133.2	138.7	136.8 122.5	135.8 121.6	130.8 123.1
Farm-retail spread (1982–84=100) Farm value-retail costs (%)	106.4 22.9	108.3 24.2	111.7 27.8	122.0 25.6	116.9 26.9	122.6 25.8	124.1 25.1	123 2 25.7	25.8	25.6	24.9
Fats & oils	62.0		27.0								
Retail cost (1982-84=100)	106.5	108.1	113.1	121.2	1185	121 6	121.7	121 3	121.6	121.0 95.2	121.6 93.0
Farm value (1982-84=100) Farm-retail spread (1982-84=100)	76.2 117.6	74.1 120.6	103.0 116.8	95.7 130.5	101.0 124.9	92. 0 132.5	80.2 137.0	87.9 133.6	86.7 134.4	130 5	132 1
Farm value—retail cost (%)	19.2	18.6	24.5	21.2	22.0	20.3	17.7	19.5	19.2	21.2	20.6
•			Annual		1988			19	89		
	1986	1987	1988	1989 P	Dec	July	Aug	Sept	Oct	Nov	Dec
Beef, Choice Retail price 2/ (cts./fb.)	230.7	242.5	254.7	269.9	260.0	271.6	269 5	270.9	270.8	272 9	274.4
Net carcase value 3/ (cts.)	133.1	145.3	153.9	160.6	158.1	156.4	155.6	152.3	153.8	159.6	165.9
Net farm value 4/ (cts.)	124.4	137.9	147.4	155.4	154.0	149.9	152 2	144.2	148.3	154.8	160.4
Farm-retail epread (cts.)	106.3	104 6 97.2	107.3 100.8	114.5 109.3	106.0 101.9	121.7 115.2	117.3 113.9	128.7 118.6	122.5 117.0	118.1 113.3	114.0 108.5
Carcass-retall 5/ (cts.) Farm-carcase 6/ (cts.)	97.6 8.7	7.4	6.5	5.2	4.1	6.5	3.4	8.1	5.5	4.8	5.5
Farm value-retail price (%)	54	57	58	58	59	55	56	53	55	57	58
Pork	470.4	-00.4	400.4	son o	499.4	100.0	104 8	1044	185.8	189.6	191.2
Retail price 2/ (cts./fb.) Wholesale value 3/ (cts.)	178.4 110.9	188.4 113.0	183.4 101.0	182.9 99.2	177.4 97.8	182.8 100.6	184. 8 101.3	184.4 100.6	106.1	106.9	112.3
Net farm value 4/ (cte.)	82.4	82.7	69.4	70.4	66.0	75 2	74.0	70.3	75.6	73.2	79.5
Farm-retail spread (cts.)	96.0	105.7	114.0	112.5	111.4	107.6	110.0	114.1	110.2	116.4	111.7
Wholesale-retail 5/ (c1s.)	67.5 28.5	75.4 30.3	82.4 31.6	83.7 28.0	79.6 31.6	82.2 25.4	83.3 26.7	83.8 30.3	79.7 30.5	82.7 33.7	78.9 32.8
Farmwholesale 6/ (cls.)											

1/ Retail costs are based on CPI-U of retail prices for domestically produced farm foods, published monthly by BLS. The farm value is the payment for the quantity of farm equivalent to the retail unit. less allowance for byproduct. Farm values are based on prices at first point of sale & may include marketing charges such as grading & packing for some commodities. The farm-retail spread, the difference between the retail price & the farm value, represents charges for assembling, processing, transporting, distributing. 2/ Weighted average price of retail cuts from pork & choice yield grade 3 best carcasses. Prices from BLS. 3/ Value of carcasse quantity (best) & wholesale cuts (pork) equivalent to 1 lb. of retail cuts, best adjusted for value of stat & hone byproducts. 4/ Market value to producer for live animal equivalent to 1 lb. of retail cuts, minus value of byproducts. 5/ Charges for retailing & other marketing services such as fabricating, wholesaling, In-city transportation. 6/ Cherges for livestock marketing, processing, & transportation.

Information contacts: Denis Dunham (202) 786-1870, Ron Gustafson (202) 786-1286.

Table 9,—Price Indexes of Food Marketing Costs_

		Annual			1988		1989				
	1987	1988	1989	III	IV	ļ	11		IV P		
					1967=100*						
Laborhourly earnings											
& benefits	361.1	370.1	379.4	368.₽	374.0	377.8	378.8	378.5	379.1		
Processing	370.2	382.0	391.1	381.3	383.7	389.6	391.4	390.5	389.4		
Wholesaling	384.2	394.1	409.2	394.7	399.8	405,1	407.6	410.8	410.3		
Retailing	341.7	347.7	354.5	345.1	353.1	353.9	353.6	352.2	354.9		
Packaging & containers	329.8	350.7	364.6	355.6	358.4	362.4	364.7	368 1	385.4		
Paperboard boxes & containers	288.0	308 1	323.7	311.4	314.6	319.1	323.2	325.5	326.1		
Metel care	433.0	442.3	443.2	443 3	438.1	438.1	438.1	448.2	448.2		
Paper bage & related products	331.3	372.2	409.2	382.2	395.7	408.3	411.5	409.2	405.5		
Plastic films & bottles	280.2	305.7	313.2	315.0	317.0	318.8	316.1	311.3	309.8		
Glass containers	402.0	398.9	409 9	398.6	398.2	401.2	413.1	413.5	412.9		
Metal foll	222.1	286.9	274.4	277.5	284.1	282.9	278.0	271.6	270.1		
Transportation services	385.0	403.5	404.9	404.5	404.8	403.2	403.5	406.2	406.3		
Advertising	361.1	384.7	410.4	386.6	391.2	403.B	407.4	412.8	414.5		
Fuel & power	596.7	578.2	619.4	580.9	571.1	801.1	614.8	620.0	628.9		
Electric	450.5	453.3	468.9	474.9	451.3	451.3	466.1	492.0	484.3		
Petroleum	561.4	502.0	592 1	472.4	474.7	560 5	583 4	560.0	598.0		
Natural gas	1,049.0	1.042.1	1.070.9	1.049.1	1,055.3	1,073.1	1,068.6	1.067.2	1.071.2		
Communications, water & sewage	238.4	241.3	247.3	241.3	243.0	244.5	247.0	248.9	248.8		
Rent	269.6	272.6	277.1	272.0	278.0	277.4	276.8	277.1	277.1		
Maintenance & repair	382.6	395.9	410.7	397.5	399.7	404.8	408.9	412.9	414.1		
Business services	349.0	364. 6	380.3	366.2	371.0	375.5	379.3	383.1	393.1		
Supplies	286.8	305.6	321.4	310.2	315.2	321.3	323.0	321.1	321.1		
Property taxes & insurance	399.8	419.9	439.7	422 5	428 3	431.4	435. 6	442.3	445.0		
Interest, short-term	132.9	150.3	172.1	159.8,	168 0	184.9,	181.8	164.2	163.4		
Total marketing cost Index	360.4	372.4	384.9	373.4	376.8	382.0	384.1	385.2	385.9		

[&]quot; Indexes measure changes in employee earnings & benefits & in prices of supplies & services used in processing, wholesaling, & retailing U.S. farm foods purchased for at-home consumption. P = preliminary.

Information contact: Denie Dunham (202) 786-1870.

Table 10.-U.S. Meat Supply & Use _

							Consi	umption	Primary
	Beg. stocks	Produc- tion 1/	Imports	Total supply	Exports	Ending stocks	Total	Per capita 2/	market price 3/
			Mill	ion pounds 4/				Pounds	
Beef 1987 1988 1989 1990 F	412 386 422 328	23,566 23,589 23,138 23,540	2,269 2,379 2,155 2,115	26,247 26,354 25,715 25,981	604 680 1,067 1,200	388 422 328 310	25,257 25,252 24,322 24,471	73.4 72.3 69.0 68.8	64.60 69.54 72.52 71-77
Pork 1987 1988 1989 1990 F	248 347 413 285	14.374 15,684 15.820 15,588	1.105 1,137 900 940	15,817 17,188 17,133 18,811	109 195 265 255	347 413 285 375	15,362 18,560 18,583 16,181	59 1 63.5 83 2 61.2	51.69 43.39 44.03 47-53
Veal 5/ 1987 1988 1989 1990 F	7 4 5	429 396 353 349	24 27 0	460 427 358 353	7 10 0	4 5 4 4	449 412 354 349	1.5 1.4 1.2 1.2	78 05 89.79 91.61 90-96
Lamb & mutton 1987 1988 1989 1990 F	13 6 8	315 335 34 7 361	44 51 82 83	372 394 415 432	2 1 2 1	8 6 8 7	364 387 405 424	1.3 1.4 1.4 1.5	78.09 68.26 67 32 61–68
Total red meat 1987 1988 1989 1990 F	680 744 846 623	38,684 40,004 39,658 39,836	3.532 3,594 3,117 3,118	42,895 44,343 43,621 43,577	722 888 1,334 1,458	744 846 623 696	41,432 42,810 41, 6 64 41,425	136 0 138.8 134 8 132.6	=
Broilers 1987 1988 1989 1990 F	24 25 36 38	15.594 16,180 17.392 18,549	0000	15.618 16,205 17,428 18,587	752 765 970 1,040	25 36 38 30	14,842 15,403 16,420 17,517	60 8 82.5 68.0 89.8	47.4 56.3 59.0 49–55
Mature chicken 1987 1988 1989 1990 F	163 188 157 190	639 638 625 632	0000	802 826 787 788	15 26 23 20	188 157 190 150	599 644 568 652	2.4 2.8 2.3 2.8	=
Turkeys 1987 1988 1989 1990 F	178 266 250 234	3,832 3,868 4,229 4,450	0	4.010 4.234 4.479 4.884	33 -51 42 48	266 250 234 250	3,711 3,934 4,230 4,386	15.2 16.0 16.9 17.5	57.8 61.5 66.7 58–62
Total poultry 1987 1988 1989 1990 F	365 479 442 462	20,085 20,788 22,247 23,632	0 0	20,430 21,265 22,689 24,094	800 842 1,035 1,108	479 442 462 430	19.151 19,981 21,191 22,556	78.5 81.1 85.2 89.9	
Red meat & poultry 1987 1988 1989 1990 F	1.045 1.224 1.288 1.085	58,749 60,790 61,905 63,468	3.532 3.594 3.117 3.118	63,326 65,608 66,310 67,671	1,521 1,728 2,369 2,564	1,224 1,288 1,085 1,128	60.581 62,592 62,855 63.981	214.4 219.7 220.0 222.5	

^{1/} Total including farm production for red meats & federally inspected plus nonfederally inspected for poultry. 2/ Retail weight basis. (The beef carcass-to-retail conversion factor was .71 for 1987, & 70.5 for 1988–90.) 3/ Dollars per cwt for red meat; cents per pound for poultry. Beef: Choice steers, Omeha 1,000–1,100 lb.; pork: barrows and gilts. 7 markets; yeal, farm price of calves; lamb & mutton: Choice slaughter lambs, San Angelo: brollers: wholesale 12–city average; turkeys: wholesale NY 8–18 lb. young hens. 4/ Carcass weight for red meats & certified ready-to-cook for poultry. 5/ Beginning 1989 year trade no longer reported separately. F = forecast. — a not available.

Information contacts: Polly Cochran, or Maxine Davis (202) 786-1284.

						I I - A - In it		Consur	nption	
	Beg. stocks	Pro duc- tion	lm- ports	Total supply	Ex- ports	Hatch [®] ing uee	Ending etocks	Total	Per capita	Wholesale price*
					Milli	on dozen				Cts./doz.
1985 1986 1987 1988 1989 P 1990 F	11.1 10.7 10.4 14.4 15.2 11.0	5,710.1 5,766.3 5,868.2 5,783.5 5,585.8 6,700.0	12.7 13.7 5.0 5.3 28.5 12.0	5,733.9 5,790.7 5,884.2 5,803.2 5. 629.5 5,723.0	70.6 101.6 111.2 141.8 95.1 104.0	548.1 566.8 599.1 605.9 641.6 675.0	10.7 10.4 14.4 15.2 11.0 10.0	5.104 5 5.111.9 5.159.5 5.040.3 4,881.9 4.934.0	255.9 253.8 253.8 245.5 235.6 236.1	68.4 71.1 61.6 62.1 81.9 70-74

^{*} Cartoned grade A large eggs. New York. P = preliminary. F = forecast.

Information contact Maxine Davis (202) 786-1714

Table 12.—U.S. Milk Supply & Use¹

			Comi	nercial		Tatal		Comm	ercial	All
	Pro- duc- tion	Farm uee	Farm market- lngs	Beg. stock	lm- ports	Total commer clai supply	CCC net re- movals	Ending stocks	Disap- pear- ance	milk Price 2/
			-	Б	illion poun	ds			_	
1981	132.8	2.3	130.5	5.9	2.3	138.5	12.9	5.4	120.3	13.77
1982	135.5	2.4	133.1	5.4	2.5	141.0	14.3	4.6	122.1	13.61
1983	139.6	2.4	137.2	4.0	2.0	144.4	10.8	5.2	122.4	13.58
1984	135.4	2.9	132.4	5.2	2.7	140.4	8.6	4.0	126.8	13.46
1985	143.0	2.5	140.0	4.9	2.8	148.3	13.2	4.0	130.5	12.75
1986	143.1	2.4	140.7	4.6	2.7	148.1	10.8	4.2	133.3	12.51
1987	142.7	2.3	140.5	4.2	2.5	147.1	0.7	4.6	135.B	12.54
1988	145.2	2.2	142.9	4.6	2.4	150.0	8.9	4.3	136.8	12.24
198 9 F	144.3	2 2	142.0	4.3	2.5	148.8	9.0	3.9	136.0	13.54

^{1/} Milkfat basis. Totals may not add because of rounding. 2/ Delivered to plants & dealers; does not reflect deductions. F = forecast.

Information contact: Jim Miller (202) 788-1770.

Table 13.—Poultry & Eggs_____

		Angual		1988				1989		
	1987	1988	1989	Dec	July	Aug	Sept	Oct	Nov	Dec
Broilers Federally Inspected staughter, certified (mil. lb.)	15.502.5	16,124.4	17.334	1.328.3	1,365.0	1,604.9	1,425.3	1,497.1	1,432.2	1.491.1
Wholesale price. 12-city (cts./lb.)	47.4	56.3	59.0	58.8	62.0	57.3	59.9	61.7	49.2	48.4
Price of grower feed (\$/ton) Broiler-feed price ratio 1/	186 3.7	220 3.1	235 3.1	254 2.8	236 3.3	233 3.1	239 3.1	223 2.7	221 2.7	220 2.6
Stocks beginning of period (mil. ib.) Broiler-type chicks hatched (mil.) 2/	23.9 5.379.2	24.8 5.601.0	35.9 5,932.4	35.3 488 2	34.3 511.8	34.9 509.3	39.7 484.0	35.9 483.7	34.5 469.3	40.6 521.4
Turkeys Federally inspected slaughter,										
certified (mil. lb.)	3,717	3,923	4,174	272.8	360.4	430.3	385.7	422.1	423.1	334.1
Wholesale price, Eastern U.S., 8-16 lb. young hens (cts./lb.)	57.8	61.2	66.7	61.6	66.4	62 8	57.9	67.8	72.5	72.7
Price of turkey grower feed (\$/ton) Turkey-leed price ratio 1/	213 3.9	243 3.0	252 3.2	264 2.9	251 3.3	250 3.3	24 9 3.0	243 3 2	241 3.4	240 3.3
Stocks beginning of period (mil. ib.) Poults Placed in U.S. (mil.)	178.2 264.2	266.2 261.4	249.7 289.8	303.5 20.4	454. 0 20.5	496.7 23.0	574.3 19.9	569.3 20.1	571.8 20.7	258.0 21.8
Eggs	70.440	PD 440	67,029	F 504	5,633	5,598	5,439	5,648	6.558	5,760
Farm production (mil.) Average number of layers (mil.)	70,418 284	69.402 277	259	5.831 274	268	266	267	268	270	271
Rate of lay (eggs per layer on tarms)	248	251	250	21.3	21.2	21.0	20.4	21.0	20.6	21.3
Cartoned Price, New York, grade A large (cts./doz.) 3/	61.6	62.1	81.0	70.4	76.5	84.2	83.8	64.8	93.4	99 5
Price of laying feed (\$100) Egg-leed price ratio 1/	170 6.3	202 5.3	209 6.7	221 5.4	210 6.1	209 6.8	209 6.8	200 7.1	199 7.8	200 8.3
Stocks, first of month Shell (mil. doz.)	0 66	1 29	0.27	0.78	0,81	0.38	0.51	0.69	0.18	0.33
Frozen (mll. doz.)	9.8	13.1	14.9	13.6	11.4	12.5	11.4	10.9	11.3	10.1
Replacement chicks hatched (mil.)	428	368	383	27.2	30 2	32.4	32.7	33.3	29.9	29.3

^{1/} Pounds of feed equal in value to 1 dozen eggs or 1 lb, of broiler or turkey liveweight. 2/ Placement of broiler Chicks is currently reported for 15 States only; hereforth, hatch of broiler-type chicks will be used as a substitute. 3/ Price of cartoned eggs to volume buyers for delivery to retailers.

Information contact: Maxine Davis (202) 786-1714.

		Annual		1988				1989		
	1987	1988	1989	Dec	July	Aug	Sopt	Oct	Nov	Dec
Milk Prices, Minnesota-Wisconsin, 3.5% fat (\$/cwt) 1/ Wholesale prices	11.23	11.03	12.37	12.27	11.76	12.37	13.10	13.87	14.69	14.93
Butter, grade A Chi. (cra./lb.)	140.2	132.5	127.9	131.2	130.3	132.8	125.1	120.5	120.5	120.0
Am. cheese, Wis. assembly pt. (cta./lb.) Nontat dry milk (cts./lb.) 2/	123.2 79.3	123.8 80.2	138.8 105.5	136.0 92.7	140.6 96.2	143.2 110.7	155.8 121.7	160.3 139.9	163.6 158.7	162 2 128.0
USDA net removals	6,708.0	8,856.2	8,987.9	448.7	167.1	-89.5	162.9	158.4	163.7	463.4
Total milk equiv. (mil. lb.) 3/ Butter (mil. lb.)	187.3	312.6	413.4	19.8	7.7	-5.1	7.7	7.4	7.7	22.1
Am, cheese (mil. lb.) Nonfat dry milk (mil. lb.)	282.0 559.4	238.1 267.5	37.4	3.8	0.2	3,1 0	0	0	0	0
Milk										
Milk prod. 21 States (mll. lb.)	121,431	123.518	122.531	10,218	10,183	10,074	9,868	9,878 1,161	9.854	10,047
Milk per cow (lb.) Number of milk cows (1,000)	13.969 8.693	14,291 8,643	14,370 8,527	1,186 8, 6 12	1,199 8,491	1,184 8,508	8,501	8.510	8.531	8,544
U.S. milk production (mil. lb.) Stock, beginning	142.709	145.152	144.252	12,015	6/11.974	6/11,846	6/11,368	6/11.661	11.396	11,860
Total (mil. lb.)	12.867	7,440	8, 189	B,382	13.937	13,817	13,308	12,102	11,092	9.586
Commercial (mil. lb.)	4,165	4.646 2,794	4,289 3,900	4,069	5,888 8,048	5.899 7,918	5,809 7,499	5,228 6,874	4,849 6,243	4,175 5,410
Government (mil. lb.) Imports, total (mil. lb.) 3/	8.702 2.490	2,794	3,800	4,313 235	194	240	226	240	268	0.410
Commercial disappearance (mil. lb.)	135,753	138.812		11,392	11.801	12,058	11.829	11,933	11,991	
Butter										
Production (mlk. lb.)	1,104.1	1,207.5	1,260.3	112.0	72.2	80.1	82.1	92.7	93.6	107.7
Stocks, beginning (mlf. lb.) Commercial disappearance (mil. lb.)	193.0 902.5	143.2 909.8	214.7	226.2 94. 6	464.2 60.8	461.0 88.5	439.2 78.7	407. 6 85.1	370.4 115.5	294.1
American cheese										
Production (mil. lb.)	2.716.7	2,758.6	2,676.2	235.0	226.8 317.4	214.0 315.9	200.3 306.4	206.8 273.8	210.2	228.7 235.7
Stocks, beginning (mil. lb.) Commercial disappearance (mil. lb.)	697,1 2,437,1	370.4 2.570.0	293 0	282.5 205. 6	227.8	220.4	233.4	230.2	225.3	233.7
Other cheese							0.40.0	0.44.0	0.440	2510
Production (mil. ib.)	2,627.7 92.0	2,815.0 89.7	2.903.0 104.7	251.5 105.9	237.8 120.4	246.4 118.3	246.B 117.6	246.3 96.8	244.0 81.3	254.0 95.4
Stocke, beginning (mil. lb.) Commercial disappearance (mil. lb.)	2,880.2	3,034.1	104.7	278.2	259.8	271.8	291.4	291.1	259.5	
Nonfat dry milk	1.058.0	070 5	971.0	75.8	50.8	53.9	46.3	48.0	50.8	62.5
Production (mil. lb.) Stocks, beginning (mil. lb.)	1,056.8 686.8	978.5 177,2	871.2 53.1	50.4	78.3	66.9	58.9	44.6	36.2	32.5
Commercial disappearance (mil. lb.)	492.9	733.1		69.9	71.6	63.8	59.1	56.7	54.8	
Frozen dessert Production (mil. gal.) 4/	1,260.7	1,246.9	1,231.2	79.1	122.5	122.1	101.2	90.3	85. 5	79.2
		Annual			1988			1	989	
	1987	1988	1989	H	III	17	ŀ	ПP	III P	IV P
Milk production (mil. lb.)	142.709	145,152	144,252	37.840	35,920	35.262	36.445	37,702	35,188	34.917
Milk per cow (lb.)	13,819	14,145	14,244	3.683	3.506	3.447	3,586	3,727	3.484	3.448
No. of milk cows (1,000) Milk-reed price ratio 5/	10,327 1,83	10.262 1,58	10.127 1,64	10,274 1.51	10.245 1.46	10.229	10,184 1.56	10,118 1,48	10,101 1,63	1.91
Returns over concentrate 5/	9.52	9.05	10.08	8.33	8.53	9.86	9.63	8.80	9.80	12.10
costs (\$/cwt milk)										

1/ Manufacturing grade milk. 2/ Prices paid (.o.b. Central States production area. 3/ Milk equivalent, fat basis. 4/ ice cream, ice milk, & hard sherbst. 5/ Based on average milk price after adjustment for price support deductions. 6/ Estimated. P = preliminary. — = not available.

Information contact: Jim Miller (202) 786-1770.

Table 15.—Wool

10010 .0. 11001										
		Angual		1988			1	98 è		
	1987	1986	1989 P	Dec	July	Aug	Sept	Oct	Nov	Dec P
U.S. wool price, 1/ (cts./lb.) Imported wool price, 2/ (cts./lb.	285 247	4 38 372	370 354	450 435	350 325	350 330	350 333	350 335	333 33 5	300 338
U.S. mill consumption, scoured Apparel wool (1,000 lb.) Carpet wool (1,000 lb.)	129,677 13,092	11 7 ,069 15 ,633	125.554 15,872	11,193 989	9,332 1,155	9,741 1,472	10, 7 67 1, 794	9.931 1,288	9.017 963	10,873 1,075

1/ Wool price delivered at U.S. mills, clean basis, Graded Territory 64's (20,60-22.04 microns) staple 2-3/4" & up. 2/ Wool price, Charleston, SC warehouse, clean basis, Australian 60/62's, type 64A (24 micron). Duty since 1982 has been 10.0 cents. P = preliminary.

Information contact: John Lawier (202) 786-1840.

		Annuel		1988			1	980		
	1987	198B	1989	Dec	July	Aug	Sept	Oct	Nov	Dec
Cattle on feed (7 States)										
Number on feed (1,000 head) 1/	7,953	8,411	8.045	6.255	7,235	6,763	6,631	6.958	7.911	8,331 1,552
Placed on feed (1.000 head)	21.040 19.545	20.654 19.918	20,834 19,422	1,421	1,291 1,700	1.638 1.694	1.953 1,579	2.652 1,628	2.001 1,490	1,418
Marketings (1,000 head) Other disappearance (1,000 head)	1,217	1.202	1,079	1,156	63	76	47	71	91	87
Beef steer-corn price ratio,				e4 e				24.4		20.0
Omaha 2/ Hog-com price ratio, Omaha 2/	41.0 32.8	31,5 19.6	30 3 18.4	27.9 16.2	29.6 19.6	32.0 20.9	30.8 10.8	31.1 20.8	32.2 20.1	32.8 21.7
Market prices (\$/cwt)										
Slaughter cattle	84,80	69.54	72.52	71,21	70.74	71.09	68.44	69.69	72.48	75.21
Choice steers, Omaha Utikiy cows, Omaha	44.83	48.55	47.86	45,14	49.12	50.39	52.42	49.42	46.60	49.38
Choice vealers, S. St. Paul 3/	78.92	90.23	248.62	225.63	246.88	263.00	258 75	244.38	242.90	230.00
Feeder cettle	=5 +4	00.07	0040	00.40		00.00	00.00		07.00	86,25
Choice, Kansas City, 800-700 lb.	75.38	83.67	86.13	86.13	87.13	88.40	88.63	86.25	87.38	80.27
Slaughter hogs Barrows & gills, 7-markets	51.69	43 39	44.03	43.01	47.08	46.84	44.32	47.15	45.77	49.33
Feeder pigs S. Mo. 40-50 lb. (per head)	46.69	38.08	33.63	29.17	24.25	30.00	30.72	37.27	38.33	39.21
Slaughter sheep & lambs Lambs, Choice, San Angelo	78.09	68.26	67.32	68.83	67.79	67,28	63.81	59.63	56.08	81.00
Ewes, Good, San Angelo	38.62	38.88	38.58	42.08	31.92	30.65	30.31	28.00	35.25	30.42
Feeder lambs Choice, San Angelo	102.28	90.89	79.85	84.83	74.08	75.50	76.06	74.88	74.68	76.00
Whatesia mark prices still-tures										
Wholesale meat prices, Midwest Choice steer beef, 600-700 lb.	97.24	103.34	107.78	106.20	104.91	104.31	102.08	103.13	107.05	111.41
Canner & cutter cow best	85.26	87.77	94.43	90.03	95.24	95.33	99.14	98.14	92.92	100.73
Pork Joins, 14-18 fb. 4/	106.23	97.49	101.09	93.61	115.10	110.03	105.25	111.78	01.75	107.28 42.23
Pork bellies, 12–14 lb. Hams, skinned, \$4–17 lb.	63.11 80.98	41.25 71.03	34.14 69.39	34.82 65.50	31.52 64.23	28.82 68.00	34.23 69.13	36.88 80.56	49.98 87.00	78.89
All fresh beet retail price 5/	212.64	224.81	238.97	233.04	240.57	240.11	241.00	241.20	243.69	245.38
Commercial slaughter (1,000 head)*										
Cattle	35,647	35.079	33,916	2,774	2,794	3,045	2,773	2.964	2.785	2,681
Steers	17,443 10,906	1 7,344 10,754	16,535 10,405	1,354 816	1,385 903	1.491 972	1.352 874	1,373 931	1,299 815	1,284 789
Heifers Cows	6.610	6.337	6,317	555	452	519	489	596	611	559
Bulls & stags	689	644	659	49	54	63	58	84	80	49
Calves	2.815 5.199	2.506 5,293	2.172	211 480	174 413	195 4 94	179 457	198 484	182 482	172 470
Sheep & lambs Hogs	81.081	87.795	5.464 88.693	7.946	6,295	7,587	7,680	8,032	6.03 9	7.238
Commercial production (mil. lb.)										
Bee!	23.405	23.424	22,973 345	1.872	1.889 27	2,091 29	1,912 28	2,041	1,906 28	1.828
Veal Lamb & mutton	416 309	387 329	339	32 29	25	29	28	28	31	31
Pork	14,312	15,623	15,754	1,425	1,107	1,333	1,349	1,421	1.446	1.288
		Annual		1	988		1	989		1990
	1987	1988	1989	131	IV	1	II	III	IV	I
Cattle on leed (13 States)		40	0.555	0.000	0.004	0.000	0.040	8,680	9 270	0.440
Number on feed (1,000 head) 1/ Placed on feed (1,000 head)	9. 5 55 25,074	10.114 24.423	9.688 24,484	9,30 6 6,031	8.851 6,655	9.688 6,232	9.918 5,212	5,719	8,276 7,321	9,443
Marketings (1,000 head)	23,126	23.459	22.955	6.261	5.468	5.658	6,040	5.896	5,361	7/5.685
Other disappearance (1,000 head)	1,389	1.390	1.274	225	352	344	410	227	293	_
Hogs & pigs (10 States) 6/	20.705	40.000	40.040	44.00€	45 000	42 210	41 655	44.000	45 000	46.600
Inventory (1,000 head) 1/ Breeding (1,000 head) 1/	39,730 5,125	42,675 5,435	43,210 5.335	44,065 5,630	45.000 5.460	43,210 5,335	41,655 5,440	44,020 5,565	45,200 5,335	42.200 5,280
Market (3,000 head) 1/	34,605	37,240	37,875	38,435	39.540	37,875	36,215	38.455	39,865	36.920
Farrowings (1,000 head)	8,853	9.370	8.203	2.358	2,301	2.109	2.580	2.324	2,190	2.084
Pig crop (1,000 head)	68.9 55	72.268	71,807	18,000	17.520	16,441	20,309	18,167	16,890	_

^{1/} Beginning of period. 2/ Bushels of corn equal in value to 100 pounds live weight. 3/ Per head starting September 1988, 4/ Prior to 1984, 8–14 lb ; 1984 & 1985, 14–17 lb; beginning 1988, 14–18 lb. 5/ New series estimating the composite price of all beef grades & ground beef sold by retail stores. This new series is in addition to, but does not replace, the series for the retail price of Choice beef that appears in table 8. 5/ Quarters are Dec. of preceding year-Feb. (I), Mar.-May (II), June-Aug. (iii), & Sept-Nov. (iv). 7/ Intentions. *Classes estimated. — = not available.

Information contacts: Polly Cochran (202) 786-1284.

Table 17.—Supply & Utilization 1,2_

		Area.					Feed	Olher				
	Set aside 3/	Planted	Harvest- ted	Yield	Produc- tion	Total supply 4/	and resid- ual	domes- tic use	Ex- ports	Total use	Ending stocke	Farm price 5/
		Mil. acres		Bu./acre				Mil. bu.				\$/bu.
Wheat 1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	18.8 21.0 23.9 22.5 9.7	79.2 75.6 72.1 65.8 65.5 76.6	66.9 64.7 60.7 56.0 53.2 62.1	38.8 37.5 34.4 37.7 34.1 32.8	2.595 2.425 2.092 2.107 1.812 2.038	4,003 3,868 4,018 3,945 3,098 2,758	405 279 413 280 137 165	749 767 780 806 838 850	1,424 915 1,004 1,598 1,419 1,300	2,578 1,961 2,197 2,584 2,394 2,315	1.425 1.905 1.821 1.281 702 443	3 39 3.08 2.42 2.57 3.72 .80-3.90
Rice		Mil. acres			1	Lb./acre	M	lil. cwt (rough o	(.viupe			\$/cwt
1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	0.79 1.24 1.48 1.57 1.09 1.21	2.83 2.51 2.38 2.36 2.93 2.73	2.80 2.49 2.36 2.33 2.90 2.69	4,954 5,414 5,651 5,555 5,514 6 ,749	138.8 134.0 133.4 129.6 159.9 154.5	187.3 201.8 213.3 184.0 195.4 186.2		6/60.5 6/65.8 6/77.7 6/80.4 6/83.2 6/85.2	82.1 58.7 64.2 72.2 85.6 82.0	122.6 124.5 161.9 152.6 168.8 167.2	64.7 77.3 51.4 31.4 28.7 19.0	6.04 6.53 3.75 7.27 6.83 7.00–8.00
Corn		Mil. acres		Ви./асте				Mil. bu.				\$/bu.
1984/85 1985/86 1986/87 1987/88 1988/89* 1988/90*	3.9 5.4 14.3 23.0 20.5 10.1	80.5 83.4 76.7 65.7 67. 6 72.3	71 9 75.2 69.2 59.2 68.2 64.8	106.7 118.0 119.3 119.8 84.6 116.2	7,674 8,877 8,250 7,131 4,929 7,527	8,684 10,536 12,291 12,016 9,191 9,460	4,079 4,095 4,714 4,805 3,979 4,400	1.091 1.160 1.192 1.229 1.245 1,305	1,865 1,241 1,504 1,723 2,036 2,275	7,036 6,496 7,410 7,757 7,260 7,980	1,648 4.040 4,862 4.259 1,930 1,480	2.63 2.23 1.50 1.94 2.54 2.20–2.40
Sorahu-		Mil. acres		Bu.Jacre				Mil. bu.				\$/bu.
Sorghum 1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	0.6 0.9 3.0 4.1 3.9 2.9	17.3 18.3 15.3 11.8 10.4 11.9	15.4 16.8 13.9 10.5 9.0 11.2	56,4 66,8 67,7 69,4 63,8 55,4	866 1.120 938 731 577 618	1,154 1,420 1,489 1,474 1,239 1,057	539 664 535 555 488 525	18 28 12 25 22 15	297 179 198 231 310 250	854 869 748 811 800 790	300 551 743 663 440 267	2.32 1.93 1.37 1.70 2.27 2.00-2.20
Barley		Mil. acres		Bu/acre				Mil. bu.				\$/bu.
1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	0.5 0.7 2.1 2.9 2.8 2.2	12.0 13.2 13.1 11.0 9.9 9.2	11.2 11.6 12.0 9.9 7.6 8.3	53.4 51.0 50.8 52.4 38.0 48.6	599 591 811 521 290 403	799 848 944 869 622 610	304 333 298 254 166 175	170 169 174 174 180 180	77 22 137 120 80 100	551 523 608 548 42 6 455	247 325 336 321 196 155	2 29 1.98 1.61 1.81 2.79 2 40-2.50
Qate		Mil. acres		Bu./acre				Mil. bu.				\$/bu.
1984/85 1985/86 1986/87 1987/88 1968/89* 1989/90*	0.1 0.1 0.8 0.8 0.3 0.3	12.4 13.3 14.7 18.0 13.9 12.1	8.2 8.2 6.9 6.9 5.5	59.0 63.7 56.3 54.0 39.3 54.4	474 521 386 374 218 374	689 728 603 552 393 532	433 460 395 358 194 300	74 82 73 81 100 110	1 2 3 1 1	508 544 471 440 294 411	180 184 133 112 98 122	1,67 1,23 1,21 1,56 2,61 1,45—1,55
Soybeans		Mil. acres		Bu./acre				Mil. bu.				\$/bu.
1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	0 0 0	67.8 63.1 60.4 58.2 58.9 60.5	68.1 61.6 58.3 57.2 57.4 59.4	28.1 34.1 33.3 33.9 27.0 32.4	1,861 2,099 1,940 1,938 1,549 1,927	2.037 2.415 2.476 2.374 1.851 2.109	0 0 0	1,030 1,053 1,179 1,174 1,058 1,090	598 740 757 802 527 590	1,721 1,879 2,040 2,072 1,669 1,774	316 536 436 302 162 335	5 84 5.05 4 78 5.88 7.42 5.35–5.65
Soybean ol								MII. Ibs.				8/ Cts./lb.
1984/85 1985/86 1986/87 1987/88 1988/89* 1989/90*	-	:		=======================================	11,468 11,617 12,783 12,974 11,737 12,220	12,209 12,257 13,745 9/14,895 9/13,967 9/13,950	=	9,917 10,053 10,833 10,930 10,591 11,250	1.660 1,257 1,167 1.873 1.661 1,450	11,577 11,310 12,020 12,803 12,252 12,700	632 947 1.725 2.092 1.715 1,250	29.50 18.00 15.40 22.65 21.10 19.0-21.0
Soybean meal								1,000 tons				10/ \$/ton
1964/85 1985/86 1986/87 1987/88 1988/89* 1989/90*		0-0 9-0 0-0	=		24.529 24.951 27,758 28,060 24,943 26,077	24.784 25,338 27,970 28,300 25,100 26,250		19.480 19.090 20.387 21.293 19.798 21,350	4,917 6,036 7,343 6,854 5,129 4,850	24,397 25,126 27,730 28,147 24,927 26,000	387 212 240 153 173 250	125 155 163 222 233 160-180

See footnotes at end of table.

Table 17.—Supply & Utilization, continued

		Area.					Feed	Other domes-				
	Set Aside 3/	Planted	Harvea- ted	Yleid	Produc- tion	Total supply 4/	ravid~ ual	tic Use	Ex- porte	Total	Ending Stocks	Farm price 5/
Cotton 11/		Mil. acres		Lb./acre				Mil. baies				
1984/85 1985/86 1985/87 1987/88 1968/89*	2.5 3.6 4.2 4.0 2.2 3.5	11.1 10.7 10.0 10.4 12.5 10.8	10.4 10.2 8.5 10.0 11.9 9.5	600 630 552 708 619 619	13 0 13 4 9.7 14.6 15.4 12.2	15.8 17.6 19.1 19.8 21.2 19.3		5.5 6.4 7.4 7.6 7.8 8.2	6.2 2.0 6.7 6.6 8.2 7.7	11 B 8.4 14.1 14.2 13.9 15.9	4.1 9.4 5.0 5.8 7.1 3.5	58.70 58.50 52.40 64.30 66.60

^{*}February 9, 1990 Supply and Demand Estimates. 1/ Marketing year beginning June 1 for wheat, barley, & oats, August 1 for cotton & rice, September 1 for soybeans, corn. & sorghum, October 1 for soymeal & soyoti. 2/ Conversion factors: Mectare (na.) = 2.471 acres, 1 metric ton = 2204.622 pounds, 38.7437 bushels of wheat or soybeans, 39.3679 bushels of corn or sorghum, 45.9296 bushels of barley, 68.8944 bushels of cate, 22.046 cwt of rice, and 4.59.480—pound bales of botton. 3/ Includes diversion, PIK, acreage reduction, 50—92, & 0-92 programs. 4/ Includes imports. 5/ Markel average prices do not include an allowance for loans outstanding & Government purchases. & Residual Included in domestic use. 7/ Includes seed. 8/ Average of crude soybean orl, Decatur. 9/ Includes 196 million pounds in imports for 1987/88, 140 million in 1988/89, and 15 million in 1989/90, 10/ Average of 44 percent, Decatur. 11/ Upland & extra long staple. Stocks estimates based on Census Bureau data, resulting in an unaccounted difference between supply & use estimates & changes in ending stocks. — = not available or not applicable.

Information contact: Commodity Economics Division, Crops Branch (202) 786-1840.

Table 18.—Food Grains_

		Marketi	ng year 1/		1988			1989		
	1985/88	1986/87	1987/88	1988/89	Dec	Aug	Sept	Oct	Nov	Dec
Wholesale prices Wheat, No. 1 HRW.						_				
Kansaa City (\$/bu.) 2/ Wheat, DNS,	3.28	2.72	2.96	4.17	4.25	4.24	4.18	4.28	4.36	4.39
Minneapolia (\$/bu.) 2/	3.25	2,62	2.92 19.25	4.25 14.85	4.20 14.10	4.22	4.23 15.90	NQ 15.55	NQ 15.00	NQ 14.60
Rice, S.W. La. (\$/cwi) 3/ Wheat	16.11	10,25	19,25	14.00	14.10	18.40	10.90	15.55	15.00	14.00
Exports (mif. bu.)	915	1,004	1.592	1,424	109	138	160	93	78	85 62 27
Milt grind (mil. bu.)	703	755	753	778	64	74	68	72	69	62
Wheat flour production (mil. cwt)	.314	335	336	348*	28	32	30	32	30	27
Exports (mil. cwt, rough equiv.)	58.7	84.2	72.2	85.6	6.8	5.5	8.5	8.6	8.2	-
		Marketing yea	ar 1/		1988				1989	
	4500:07	4007100	4000000		- August Augus	Cont. No.	Dec 5ab	Mar. Mar.	lum 6 m	D. mt. Mari
Wheat	1986/87	1987/88	1988/89	Mar-May	Jun-Aug	Sept-Nov	Dec-Feb	Mar-May	June-Aug	Sept-Nov
Stocks, beginning (mil. bu.) Domestic use	1,905	1,821	1,281	1,923.5	1,260.8	2,253.6	1,715.9	1.227.7	701.6	1.917.2
Food (mil. bu.)	712	721	735	174.6	183.3	197.3	178.3	176.0	192.7	196.0
Seed, feed & residual (mil. bu.) 4/	485	365	240	25.9	283.2	176	-48.9	-13.6	283.5	-19.6
Exports (mil. bu.)	999	1,598	1,419	467.3	361.0	329.0	360.5	368.0	369.9	328.0

1/ Beginning June 1 for wheat & August 1 for rice. 2/ Ordinary protein. 3/ Long grain, milled basis. 4/ Regidual includes feed use. — = not available. NQ = no quote.

Information contacts: Ed Allen & Janet Livezey (202) 786—1840.

Table 19.—Cotton

		Market	ing year 1/		1988			1989		
U.P. adea Plas	1985/86	1986/87	1987/88	1988/89	Dec	Aug	Sept	Oct	Nov	Dec
U.S. price, SLM, 1-1/16 in. (cts/lb.) 2/	60.0	53.2	63.1	57.7	54.8	89.9	68.5	69.4	68.3	63.6
Northern Europe prices Index (cts./lb.) 3/ U.S. M 1-3/32 in. (cts./lb.) 4/	48 9 64.8	82.0 61.8	72.7 76.3	66.4 69.2	61.3 65.8	83.0 84.5	81.8 63.0	82.1 83.3	82.1 82.1	77.3 76.3
U.S. mill consumpt. (1,000 bales) Exports (thou bales) Stocks, beginning (1,000 bales)	6,399 1,969 4,102	7.452 6,684 9.348	7.817 8,582 5.026	7.792 6,147 5,771	496 670 14,096	800 507 7,093	725 492 6,179	763 522 5,577	702 520 9,248	557

^{1/} Beginning August 1, 2/ Average spot market. 3/ Liverpool Outlook (A) Index; average of five lowest priced of 11 selected growths. 4/ Memphis territory growths.

Information contact: Bob Skinner (202) 786-1840.

		Marketin	g year 1/		1988			1989		
	1985/86	1986/87	1987/88	1988/89	Dec	Aug	Sept	Oct	Nov	Dec
Wholesale prices Corn, no. 2 yellow, 30 day, Chicago (\$hou.)	2.35	1.04	2.14	2.68	0.00	0.00	0.00	2.26	0.07	2.24
Sorghum, no. 2 yellow,	2.00	1.64	2.14	2.00	2.69	2.30	2.32	2.38	2.37	2.34
Kansas City (\$/cwt) Barley, feed,	3.72	2.73	3 40	4.17	4 23	3.92	4.73	3.91	4.00	3.98
Duluth (\$/bu.) 2/ Barley, malting.	1 53	1.44	1.78	2.31	2.14	2.17	2.14	2.16	2.15	2.23
Minneapolie (\$/but) Exports 3/	2.24	1.89	2.04	4.11	3.82	3.57	3.42	3.48	3.18	3.19
Corn (mil. bu.)	1,241	1,504	1.723	2.036	172.6	109.3	116.3	175	294	
Feed grains (mll. metric tons) 4/	36.8	46.3	52.3	61.3	5.4	3.6	4.1	5.5	8.2	_
		Marketi	ng year 1/		1988			1989		1990
Corn	1985/88	1986/87	1987/88	1988/89	Sept-Nov	Dec-Feb	Mar-May	June-Aug	P Sept-Nov	Dec-Feb
Stocks, beginning (mil. bu.) Domestic use	1,648	4,040	4,882	4,259	4.259	7,072	5,204	3.419	1,930	7,079
Feed (mil. bu.)	4.095	4.714	4.805	3.979	1.334	1,077	849	690	1,497	_
Food, seed, ind. (mil. bu.)	1,160	1.192	1,229	1,245	294	284	337	330	300	
Exports (mll. bu)	1,241	1,504	1.723	2,038	482	508	600	470	582	
Total use (mil. bu.)	6,496	7.410	7,757	7,260	2,109	1,869	1,787	1,490	2,379	

^{1/} September 1 for corn & eorghum; June 1 for cats & barley. 2/ Beginning March 1987 reporting point changed from Minneapolis to Duluth. 3/ Includes products. 4/ Aggregated data for corn, eorghum, cats, & barley. P = pretiminary. — not available.

Information contact: James Cole (202) 788-1840.

Table 21.—Fats & Oils _____

		Marke	eting year *		1988			1989		
	1985/86	1986/87	1987/88	1988/89	Nov	July	Aug	Sept	Oct	Nov
Soybeans Wholesale price, no. 1 yellow. Chicago (\$/bu.) Crushings (mil. bu.)	5.20 1,052.8	5.03 1.178.8	6, 67 1,174.5	7.41 1,057.7	7.57 101.0	6.97 74.0	5.98 75.8	5.80 74.1	5.61 94.8	5.7 6 103.9
Exports (mil. bu.) Stocks, beginning (mil. bu.)	740.7 318.0	758.9 536.4	801.6 436.4	530.6 302.5	61.3 136.6	16.7 46.1	18.3 31.0	17.9 23.8	74.2 24.5	76.7 96.6
Soybean dil Wholesale price, crude, Decatur (cts./fb.) Production (mil. /b.) Domestic disap. (mil. /b.) Exports (mil. /b.) Stocks, beginning (mil. /b.)	18.02 11,617.3 10,045.9 1,257.3 632.5	15.38 12.783.1 10,820.2 1.184.5 946.6	22.67 12.974.5 10,734.1 1.873.2 1.725.0	21.09 11,737.0 10,455.8 1,658.2 2,092.2	21.8 1,144.2 741.1 119.8 1,860.6	19.66 835.9 932.7 159.3 2.683.1	18.08 855.0 1014.5 181.1 2.426.9	18.8 843.0 948.3 265.6 2,069.6	19.0 1,047.4 1,134.2 123.9 1,715.4	18.7 1,108.5 1,046.4 82.5 2,046 2
Soybean meal Wholesale price, 44% protein, Decatur (\$400) Production (1,000 ton) Domestic disap. (1,000 ton) Exports (1,000 ton) Stocks, beginning (1,000 ton)	154.88 24.951.3 19.117 2 6,009.3 386.9	162.61 27.758.8 20,387.4 7,343.0 211.7	221.90 28.060.2 21.275.9 6,871.0 240.2	233.46 24,942.7 19,792.5 5,130.8 153.5	248.20 2,399.4 1,962.7 409.0 267.8	231.50 1,749.2 1.568.2 134.0 218.0	215.50 1,804.4 1,740.1 177.1 264.9	217.10 1,744.0 1,583.5 159.7 152.0	191.60 2.246.2 1,933.5 285.0 172.9	183.40 2,488.6 2,143.4 371.4 220.5
Margarine, wholesale price, Chicago, white (cts./lb.)	51.2	40 3	40.3	52.3	55.4	53.26	51.6	52.20	51.7	52.1

^{*} Beginning September 1 for soybeans: October 1 for soymeal & oil: calendar year for margarine.

Information contacts: Roger Hoskin (202) 788-1840, Tom Bickerton (202) 788-1824.

Table 22.—Farm Programs, Price Supports, Participation & Payment Rates_

					ayment rates				
	Tärgel pnca	Loan	Findley loan rate	Detloiency	Paid land diversion	PiK	Base/ acres 1/	Program 2/	Partici- pation rate 3/
	,		\$/54			Percent 4/	Mil. acres		Percent of base
Wheat 1984/85 1985/86 1986/87 5/ 1987/88 1988/89 1989/90 1990/91	4.38 4.38 4.38 4.23 4.10 4.00	3.30 3.30 3.00 2.85 2.76 2.58 2.44	2.40 2.28 2.21 2.06 1.95	1.00 1 08 1.98 1.81 0.00 7/ .32	2.70 2.70 2.00 	1.10	94.0 94.0 91.6 87.6 84.8 82.3	20/10/10-20 20/10/0 22.5/2.5/510 27.5/0/0 27.5/0/0 10/0/0 * 5/0/0	60/60/20 73 85/85/21 88 86 78
Rice			\$/cwt						
1984/85 1985/86 1986/87 5/ 1987/88 1988/89 1989/90 1990/91	11.90 11.90 11.90 11.66 11.15 10.80 10.71	8.00 7.20 6.84 6.63 8.50 6.50	6/3.16 6/3.82 6/5.77 6/6.30 6/6.50	3.76 3.90 4.70 4.82 4.31 3.50	3.50		4.1 4.2 4.2 4.1 4.1	25/0/0 20/15/0 35/0/0 35/0/0 25/0/0 25/0/0 20/0/0	85 90 94 96 94 95
Corn			\$/bu.						
1984/65 1985/86 1986/87 5/ 1987/88 1988/89 1989/90 1990/91	3.03 3.03 3.03 3.03 2.93 2.84 2.75	2.55 2.55 2.40 2.28 2.21 2.06 1.96	1.92 1.82 1.77 1.65 1.57	0.43 0.48 1.11 1.09 7/.35 7/.64	2.00		80.8 84.2 81.7 81.5 82.9 82.7	10/0/0 10/0/0 17.5/2.5/0 20/15/0 20/10/0: 0/92 10/0/0: 0/92 10/0/0: 0/92	54 69 86 90 87 81
Sorghum			\$/bu.						
1984/85 1985/86 1986/87 5/ 1987/88 1988/89 1989/90 1990/91	2.88 2.88 2.88 2.78 2.70 2.61	2.42 2.42 2.28 2.17 2.10 1.96 1.86	1.82 1.74 1.68 1.57 1.49	0.46 0.46 1.06 1.14 0.48 7/_70	0.65 1.90 1.65		18 4 19.3 19.0 17.4 18.8 16.2	8/(same)	42 55 75 84 82 79
Doubou			\$/bu.						
Barley 1984/85 1985/86 1986/87 5/ 1987/88 1937/89 1989/90	2.60 2.60 2.60 2.51 2.43 2.36	2.08 2.08 1.95 1.86 1.80 1.68 1.60	1.56 1.49 1.44 1.34 1.28	0.26 0.52 0.99 0.79 0.00 7/ .23	0.57 1.60 1.40		11.6 13.3 12.4 12.5 12.5 12.5	8/(same)	44 57 72 84 79 69
Oats		4.54	\$/bu.				0.0	8/(same)	14
1984/85 1985/86 1985/87 5/ 1987/88 1988/89 1989/90 1990/91	1.60 1.60 1.60 1.60 1.55 1.55	1.31 1.23 1.17 1.13 1.06 1.01	0.99 0.94 0.90 0.85 0.81	0.29 0.39 0.20 11/0.00 0.00	0.36		9.8 9.4 9.2 8.4 7.9 7.6	5/0/0; 0/92 5/0/0; 0/92 5/0/0; 0/92 5/0/0; 0/92	14 37 45 30 23
Soybeans 9/			\$/bu.						
1984/85 1985/86 1986/87 5/ 1987/88 1988/89 1989/90 10/		5.02 5.02 4.77 4.77 4.77 4.53				official from the control of the con		Ale all halls	
Upland cotton			Cta./ib.						
1984/85 1985/86 1986/87 5/ 1987/86 1988/89 1989/90 1990/91	81.0 81.0 81.0 79.4 75.9 73.4 72.9	55.00 57.30 55.00 52.25 51.80 50.00 50.27	11/44.00 12/ — 12/ — 12/ — 12/ —	18.60 23.70 26.00 17.3 19.4 11.4	30.00	utilis daliffere dali-qui-uni utilis daliffere dali-qui-	15.6 15.9 15.5 14.5 14.5	25/0/0 20/10/0 25/0/0 25/0/0 12.5/0/0 25/0/0 12.5/0/0	70 82/0/0 93 93 89 89

^{1/} includes planted area plus acres considered planted (ARP, PLD, 0-92 etc). Net of CRP. 2/ Percentage of base acres that farmers participating in Acreage Reduction Programs/Paid Land Diversion/PlK were required to devote to conserving uses to receive program benefits. 3/ Percentage of base acres enrolled in Acreage Reduction Programs/Paid Land Diversion/PlK. 4/ Percent of program yield, except 1986/87 wheat, which is dollars per bushel. 1984 PlK rates apply only to the 10-20 portion. 5/ Rates for payments received in cash were reduced by 4.3 percent in 1986/87 due to Gramm-Rudman-Hollings. 6/ Annual average world market price. 7/ Guaranteed to farmers signed up for 0/92. 8/ The sorghum, data, 8 barley programs were the same as for corn in each year except 1988-90, when the data ARP was lower than for the other feed grains. 9/ There are no target prices, acreage programs, or payment rates for soybeans. 10/ Loan rate was not to be announced prior to August 1, 1989. 11/ Loan repayment rates. 12/ Loans may be repaid at the lower of the loan rate or world market prices. "On September 13, the Secretary announced that participating farmers have the option of planting up to 105 percent of their wheat base to boost 1990 supplies. For every acre planted in excess of 95 percent of base, the acreage used to compute deficiency payments will be cut by 1 acre. -- = not available.

Information contact: James Cote (202) 786-1840.

	1981	1982	1983	1984	1985	1986	1987	1988	1989 P
Citrus 1/ Production (1,000 ton) Per capita consumpt. (ibs.) 2/	15,105 104.4	12,139 109.3	13,682 120.0	10,832 102.8	10,525 109.1	11,058 117.3	11,994 112.8	12,761 113.6	13,132
Noncitrus 3/ Production (1,000 tons) Per capita consumpt. (ibs.) 2/	13,332 88.0	14,659 89.2	14,154 88.7	14,291 93,9	14,189 91.8	13.918 96.4	16,011 101.5	15,872 97.7	18,090
	1988				ı	989			
	Dec	May	June	July	Aug	Sept	Oct	Nov	Dec
F.o.b. shipping point prices Apples (\$/carton) 4/ Pears (\$/box) 5/	12.00 10.38	9,41 13.67	7.86 14.38	9.55	11.31	10.49	8 31 11.10	Ξ	9.00 11.75
Grower prices Oranges (\$/box) 6/ Grapefruit (\$/box) 6/	6.42 4.64	8.52 4.05	8.10 4.85	5.04 4.62	3.91 5.63	6.62 6.10	6.22 8,18	8. 47 5.54	5,83 5.18
Stocks, ending Fresh apples (mil. lbs.) Fresh pears (mil. lbs.)	3.265.8 295.5 939.1	619.3 26.6 574.3	347.3 6.4 621.4	174.9 11.0 722.5	8.0 157.9 850.3	2,522.0 448.2 863.9	4,501.9 436.9 955.1	3,845 8 368.8 909.3	3,219.4 272.8 803.2
Frozen fruits (mil. lbs) Frozen crange juice (mil. lbs.)	721.6	1,296.1	1,296.9	1,140.0	946.9	608.4	693.1	667.7	765.0

^{1/ 1989} Indicated 1988/89 season. 2/ Per capits consumption for total U.S. population, including military consumption of both fresh and processed fruit in fresh weight equivalent. 3/ Calendar year. 4/ Red delicious, Washington, extra lancy, carton tray pack, 125's. 5/ D'Anjou, Washington, standard box wrapped. U.S. no. 1, 135's. 6/ U.S. equivalent on-tree returns. --= not available. p = preliminary. f = forecast.

Information contact: Wynnice Napper (202) 798-1885.

Table 24.—Vegetables _____

					Cale	ndar year				
	1980	1981	1982	1983	1984	1985	1986	1987	1986	1989
Production Total vegetables (1.000 cwt) Fresh (1.000 cwt) 1/3/ Processed (tons) 2/3/ Mushrooms (1.000 lbs.) Potatoes (1.000 cwt) Sweetpotatoes (1.000 cwt) Oryledible beans (1.000 cwt)	395,225 179,416 10,790,440 469,576 303,905 10,953 28,729	392.343 183,458 19,444.330 517,146 340.623 12,799 32,751	430,795 193,452 11,867,170 490,826 355,131 14,833 25,563	403.320 185.561 10.887.950 561.531 333.726 12.083 15,520	457,394 202,608 12,739,280 595,681 362,039 12,902 21,070	453.771 204.146 12.481,240 587.956 406.609 14.573 22,175	461,329 215,969 12,268,020 614,393 361,743 12,368 22,886	488.470 230.913 12.877,850 631.819 389.320 11,611 26,031	477.729 237,978 11,987,550 667,367 356,438 10,945 19,253	543.748 240.421 15.166,340 370.344 11,499 24,333
	1988					1989				
	Dec	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Shipments Fresh (1,000 cwt) 4/ Potatoes (1,000 cwt) Sweetpotatoes (1,000 cwt)	16,635 11,092 460	20.887 13,005 229	35.676 15,768 190	31,223 9,991 20	21,599 8,466 19	21.914 10.678 187	15,030 9,005 288	16,605 9,612 333	21.968 12,639 789	17,467 10,389 451

^{1/} includes fresh production of separagus, procedic carrots, cauliflower, celery, awest corn, lettuce, honeydews, Oniona, & Iomatoes. 2/ includes processing production of anapbeans, awest corn, green peas, tomatoes, cucumbers (for pickles), asparagus, procedic carrots, & cauliflower. 3/ Asparagus & cucumber estimates were not available for 1982 & 1983 4/ includes anapbeans, procedic, cabbage, carrots, cauliflower, celery, sweet corn, cucumbers, eggplant, lettuce, onions, bell peppers, squash, tomatoes, cantaloupes, honeydews, & watermelons. — = not available.

Information contacts: Shannon Hamm or Cathy Greene (202) 786-1884.

Table 25.—Other Commodities _

			Annual					1989		
	1985	1986	1987	1988	1989	Oct-Dec	Jan-Mar	Apr-June	July-Sept	Oct-Dec
Sugar Production 1/ Deliveries 1/ Stocks, ending 1/ Coffee	5,969 8,035 3,128	6.257 7.788 3,225	7,309 8,167 3,195	7,087 8.188 3,132	6.827 8,309 2.933	3.594 2,107 3,134	1,824 1,902 3,413	677 2,056 2,351	617 2,161 1,224	3,709 2,190 2,933
Composite green price N.Y. (cts./lb.)	137.46	185.18	109.14	115.59	95.17	120.75	128.67	118.01	72.29	63.70
Imports, green bean equiv. (mil. lbs.) 2/	2.550	2,596	2.638	2,072	2.630	472	580	535	784	725
		Annual		1988				1989		
Tobacco	1986	1987	1988	Oct	May	June	July	Aug	Sept	Oct
Price s at auctions 3/ Flue-cured (\$/lb.) Burley (\$/lb.)	1.52 1.60	1.59 1.56	1.61 1.61	1.69	_	_	Ξ	=	1.74	1.70
Oomestic consumption 4/ Cigarettes (bil.) Large cigare (mll.)	584.0 3 ,05 5	575.0 2,728	562.5 2,531	46.9 217.4	52.9 250.8	51.5 255.0	26.8 166.1	47.2 231.0	44. 4 216.2	=

^{1/ 1,000} short tons, raw value. Ouarterly data shown at end of each quarter. 2/ Net imports of green & processed coffee. 3/ Crop year July-June for flue-cured, Oct.-Sept. for burley. 4/ Taxable removals. — a not available.

Information contacts: sugar, Peter Buzzanell (202) 786-1886, coffee, Fred Gray (202) 786-1888, tobacco, Verner Grise (202) 786-1890.

Table 26.—World Supply & Utilization of Major Crops, Livestock, & Products

	1983/84	1984/85	1985/86	1986/87	1987/88	1988/89 P	1989/90 F
				Milfion units			
Wheat Area (hectares) Production (metric tons) Exports (metric 1ons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	228.9	231.2	229.6	228.2	219.9	218.2	225.8
	489.3	511.9	500.1	530.6	501.7	501.3	536.2
	102.0	107.0	85.0	90.7	104.9	97.4	97.9
	474.0	493.0	496.2	522.5	531.0	530.5	538.0
	145.1	164.0	168.3	176.4	147.2	117.9	116:1
Coarse grains Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	335.0	334.6	341.3	337.3	323.6	325.4	324.3
	688.1	815.8	842.7	833.7	792.1	728.3	800.0
	93.4	100.4	83.2	84.1	83.7	94.1	100.0
	759.3	782.6	778.4	807.9	812.8	796.3	825.0
	110.7	143.9	208.2	234.0	213 3	145.4	120.4
Rice, milled Area (hectaree) Production (metric tons) Exports (metric tons) 4/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	144.1	144.1	144.6	145.1	141.2	145.6	146.4
	307.9	318.8	318.8	318.3	313.3	329.5	339.6
	12.4	11.4	12.6	12.9	11.9	15.0	13.7
	304.5	310.6	319.2	322.5	319.5	326.9	335.7
	46.6	54.9	54.9	50.8	44.6	47.2	51,1
Total grains Area (hectares) Production (metric tons) Exports (metric tons) 1/ Consumption (metric tons) 2/ Ending stocks (metric tons) 3/	708.0	709.9	715.5	710.6	684.7	689.2	696.5
	1,485.3	1,846.5	1,661.6	1.682.6	1,607.1	1,559.1	1.675.8
	207.8	218.8	180.8	187.7	200.5	206.5	211.6
	1,537.8	1,586.2	1,593.8	1,852.9	1,663.3	1,653.7	1,698.7
	302.4	362.8	431.4	461.2	405.1	310.5	287.6
Oileeeds Crush (metric tons) Production (metric tons) Exports (metric tons) Ending stocks (metric tons)	135.8	150.7	155.0	161.4	167.0	165.8	173.0
	165.0	191.1	196.1	194.3	208.7	202.4	213.7
	33.0	33.1	34.5	37.7	39.5	31.5	34.3
	15.7	21.1	26.8	23.5	23.9	21.9	23.2
Meals Production (metric tone) Exports (metric tons)	92.5	101%	105.0	110.4	114.5	112.1	117.8
	29.7	32.3	34.4	36.7	36.2	37.3	39.5
Oile Production (metric tone) Exports (metric tone)	42.1 13.7	4 6.2 15. 6	49.3 16.4	50.3 16.9	52.8 17.6	53.7 17.7	56.2 18.8
Cotton Area (hectares) Production (bales) Exports (bales) Consumption (bales) Ending stocks (bales)	31.0	33.9	31.9	29.9	31.1	34.0	32.8
	65.6	88.2	79.6	70.4	81.1	84.3	79.3
	19.2	20.2	20.2	26.0	23.2	25.7	25.1
	68.3	70.0	75.8	82.5	84.1	84.7	85.4
	24.0	42.4	47.2	34.9	32.2	30.9	24.7
	1984	1985	1986	1987	1988	1989 P	1990 F
Red meat Production (metric tons) Consumption (metric tons) Exports (metric tons) 1/	99.8	103.7	106.7	109.7	113.2	113.5	114.2
	97.8	101.6	105.4	107.9	111.3	111.6	112.4
	6.0	6.4	6.7	6.7	7.0	7.0	7.2
Poultry Production (metric tons) Consumption (metric tons) Exports (metric tons) 1/	25.2	26.2	27.4	29.3	30.2	31.3	32.6
	25.0	25.8	27.0	28.7	29.8	30.8	32.0
	1.3	1.2	1.3	1.5	1.7	1.7	1.8
Dairy Milk production (metric tons)	413.0	413.4	419.0	427.1	430.0	431.8	437.4

^{1/} Excludes intra-EC trade. 2/ Where stocks data not available (excluding USSR), consumption includes stock changes. 3/ Stocks data are based on differing marketing years & do not represent levels at a given date. Data not available for all countries; includes estimated change in USSR grain stocks but not absolute level. 4/ Calendar year data. 1984 data correspond with 1983/84, etc. P = prefiminary. F = forecast.

Information contacts: Crops, Frederic Suris (202) 786-1824; red meat & poultry, Linda Bailey (202) 786-1286; dairy, Sara Short (202) 786-1769.

Table 27.—Prices of Principal U.S. Agricultural Trade Products

		Annual		1988				1989		
	1987	1988	1989	Dec	July	Aug	Sept	Dct	Nov	Dec
Export commodities										
Wheat, f.o.b. vessel, Gulf ports (\$/bu.)	3.11	3.97	4 65	4.55	4.57	4.49	4.47	4.50	4 57	4.62
Corn. f.o.b. vessel. Gulf ports (\$/bu.)	1.95	2.73	2.85	3.00	2.74	2.58	2.62	2.73	2.79	2 79
Grain sorghum, f.o.b. vessal,										
Gull ports (\$/bu.)	1 88	2.52	2.70	2.79	2.60	2.54	2.63	2.60	2,84	2 65
Soybeans, f.o.b. vessel, Gulf ports (\$/bu.)	5.55	7.81	7.06	8 07	7.20	6.28	6.13	5.95	6.18	6.22
Soybean oil, Decatur (cte/lb.)	1585	23.52	20.21	21.75	19.87	17.86	18.59	18.73	19.51	19,10
Soybean meal, Decatur (\$/ton)	175.57	234,75	218.59	246.48	230.23	214.70	216,65	191.93	183.76	179 82
Cotton, 8-market avg. spot (cts./ib.)	64.35	57.25	63.78	54.85	67.39	69.99	68.46	69.70	68.26	63.56
Tobacco, avg. price at auction (cts./lb.)	137.41	153.61	151.56	144.90	160.31	158.36	165.72	162.84	160.77	161.00
Rice, f.o b. mill, Houston (\$/cwt)	13.15	19.60	15.68	15.00	16.50	16.50	18,50	16.50	16.00	15.67
Inedible tallow, Chicago (cts /tb.)	13.79	18.64	14.86	16.33	14.48	13.52	14.13	15.25	15 50	15.23
Import commodities	1 = 11 0		, ,,,,,,							
Coffee, N.Y. spot (\$fib.)	1.09	1.21	1,04	1.31	0.88	0.78	0.78	0.71	0.72	0.70
Rubber, N.Y. spot (cts //b.)	50.65	59 20	50.65	64.13	49.16	47.21	46.13	46.08	45 64	44.82
Cocoa beans, N.Y. (\$/b.)	0.87	0.69	0.55	0.68	0.58	0.55	0.49	0.46	0.44	0.42
Cocoa Dagita, ia. i. fain.)	0.07	4.00	0.00	0.00	0.00	0.00	0.70	0.70		

Information contact: Mary Teymourian (202) 786-1820.

Table 28.—Indexes of Real Trade-Weighted Dollar Exchange Rates 1

						1989						1990
	Feb	Mar	Apr	May	June P	July ₽	Aug ₽	Sept P	Oct P	Nov P	Dec P	Jan P
						1985 = 10	00					
Total U.S. trade 2/	69.3	70.2	70.3	73.2	74.7	72.0	72.8	73.9	71.7	71.1	69.5	68.6
Agricultural trade												1
Ü.S. markete	77.5	79.4	79.1	81.0	82.2	80.6	82.0	82.5	80.6	60.7	79.6	79.3
U.S. competitore	81.4	81.9	85.0	88.7	88.8	87.6	86.3	85.9	84.8	84.4	83.3	82.8
Wheat											00.0	
U.S. markets	91.2	93.7	92.7	93.6	93.6	93.2	96.2	95.9	94.1	93.7	92.0	92.7
U.S. competitors 3/	75.4	76.5	82.3	88.7	89.0	86.3	83.9	83.3	82.2	81.4	60.1	79.4
Soybeans											70.0	80.0
U.S. markete	69.6	70.4	70.4	72.8	74.4	72.3	72.8	73.7	71.8	71.5	70.0	69.3
U.S. competitors 3/	70.3	72.6	91.8	109.7	106.1	105.1	95.4	90.8	90.3	90.5	90.7	91.0
Corn										70.4	70.0	74.5
U.S. markets	68.7	70.7	70.2	72.2	73 9	72.3	74.0	74.7	73.1	73.4	72.6	72.5
U.S. competitors 3/	70 3	73.9	89.4	105.9	105.3	99.5	93.5	91.3	89.7	89.0	87.2	86.4
Cotton												20.4
U.S. markets	74.4	75.1	74.9	76 2	77.4	78.3	76.4	76 9	75.7	75.8	75.4	75.1
U.S. competitors	80.8	82.7	62.7	84.6	84.3	83.4	89.5	86.2	85.8	84 8	63.2	83.4

1/ Real indexes adjust nominal exchange rates for differences in rates of inflation, to avoid the distortion caused by high-inflation countries. A higher value means the dollar has appreciated. See the October 1988 leave of Agricultural Outlook for a discussion of the calculations and the weights used. 2/ Federal Reserve Board Index of trade-weighted value of the U.S. dollar against 10 major currencies. Weights are based on relative importance in world financial markets. 3/ Substantial devaluations of the Argentine australe & Brazilian cruzado resulted in a sharp increase in the April, 1989, & subsequent values of these indicas. P = preliminary

Information contact: Tim Saxter, David Stallings (202) 788-1706.

Table 29.—Trade Balance _

					Fiscal year 1	1				1989
	1983	1984	1985	1986	1987	1988	1989 F	1990 F	Oct	Nov
				\$ milli	on					
Exports Agricultural Nonagricultural Total 2/	34,769 159,373 194,142	38,027 170,014 208,041	31.201 179,236 21 0. 437	26,312 179,291 205,603	27.676 202,911 230.787	35,379 258,593 293,972	39,651 302,507 342,158	38.000	3.392 27.273 30,665	3,654 25,276 28,930
Imports Agricultural Nonagricultural Total 3/	16,373 230,527 246,900	18,916 297,736 316,652	19.740 313.722 333.462	20,884 342,846 363,730	20.650 367.374 388,024	21.014 409.138 430.152	21,479 441,072 462,551	21,000	1,851 41,099 42,950	1,851 38,648 40,499
Trade balance Agricultural Nonagricultural Total	18.396 -71.154 -52.758	19,111 -127,722 -108,611	11.461 -134.486 -123,025	5,428 -163,555 -158,127	7,226 -164,463 -157,237	14.365 -150.545 -136.180	18,172 -138,565 -120,393	17.000	1,541 -13,826 -12,285	1.803 -13,372 -11,569

1/ Fiscal years begin October 1 & end September 30. Fiscal year 1989 began Oct. 1, 1988 & ended Sept. 30, 1989. 2/ Domestic exports Including Department of Detense shipments (F.A.S. value). 3/ Imports for consumption (customs value). F * forecast. — = not available.

Information contact: Stephen MacDonald (202) 786-1822.

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Table 30.—U.S. Agricultural Exports & Imports

		Fiscal ye	ar'	Oct	Nov		Flecal ye	er"	Qct	Nov
	1988	1989	1990 F		989	1988	1989	1990 F	31	989
EXPORTS		1,000 มก	ėt w	1.00	00 units		\$ m	illion	\$ m	illion
Animals, live (no.) 1/ Meats & preps., excl. poultry (mt) Dairy products (mt) Poultry meats (mt) Fats. dis. & greases (mt) Hides & skins incl. furskins Cattle hides, whole (no.) 1/ Mink Pells (no.) 1/	430 631 388 390 1.362 20.817 2,455	758 869 594 468 1,377 	500 3/1,400	47 87 8 43 133 2,153 231	50 80 7 53 105 2,108	452 1.797 536 424 545 1.837 1,458 88	475 2,355 475 514 531 1,713 1,360 91	800	44 206 29 42 48 143 113	51 202 26 51 39 135 106
Grains & feeds (mt) Wheat (mt) Wheat flour (mt) Rice (mt) Feed grains, incl. products (mt) Feeds & fodders (mt) Other grain products (mt)	108,944 40,517 1,236 2,173 53,117 11,255 910	114,976 37,702 1,288 3,052 61,094 11,071 1,197	33.000 1,300 2,500 63,500 6/11,400	9.176 2.431 66 279 5,409 925 101	11.300 1.868 135 265 8,155 769	12,569 4,469 170 731 5,193 1,720 362	16,837 6,006 266 955 7,379 1,848 513	4/15.800 5/5,400 800 6.700	1,283 383 17 92 599 147 47	1.490 305 31 88 896 125 55
Fruite, nuts, and preps. (mt) Fruit juices incl.	2,409	2.555		279	242	2,388	2,394		293	242
froz. (1,000 hectoliters) 1/ Vegetables & preps. (mt)	5.4 97 1,821	4,997 2,482	_	367 174	335 166	252 1.280	284 1.546	=	18 155	17 168
Tobacco, unmanulactured (mt) Cotton, excl. linters (mt) Seeds (mt) Sugar, cane or best (mt)	22B 1.388 286 318	212 1.441 514 388	1.700	18 114 43 52	32 113 28 48	1,297 2,138 415 98	1,274 2,039 500 134	1.300 2.700 500	106 176 39 20	193 184 42 14
Oliseeds & products (mt) Oilseeds (mt) Soybeans (mt) Protein meal (mt) Vegetable oils (mt) Essential oils (mt) Other	29,688 21,601 21,142 6,389 1,699 9 610	21,090 14,775 14,088 4,816 1,498 13 612	15.800 4.600	2,424 2.058 2.014 244 122 1 55	2.567 2.148 2.086 341 78 1	7,758 5,295 5,066 1,501 962 120 1,495	6,624 4,400 4,079 1,317 908 171 1,805	5,800 3,400 900 	609 483 452 57 69 16 165	627 500 467 77 50 14 155
Total	148.473	147.569	145,500	12,607	14,783	35,379	39,651	38,000	3,392	3,654
IMPORTS										
Animals, livs (no.) 1/ Meats & preps., excl. poultry (mt) Beef & veal (mt) Pork (mt) Dairy products (mt) Poultry & products 1/ Fats, cils, & greases (mt) Hidss & skins, inct, furskins 1/ Wool, unmanufactured (mt)	2.238 1,280 779 456 232 20 56	2.484 1,092 668 371 211 14 62	585 370 300	149 87 57 25 23 1	254 89 59 26 25 1	729 2,788 1,581 1,001 881 97 19 247 292	740 2,433 1,527 778 834 130 14 240 319	1.500 800 800	54 210 141 63 87 13 1	92 220 148 63 97 12 1 12 13
Grain∎ & leed● (ml)	3.075	3.468	3,200	295	370	868	1,139	1,100	118	125
Fruits, nuts, & preps., excl. juices (mt) Bananas & plantains (mt) Fruit juices (1,000 hectoliters) 1/	4,797 3,030 26,758	5,036 3,039 27,778	4,915 3,050 27,000	376 274 2,349	375 264 3.253	2,169 820 768	2.269 851 793	800	172 79 82	174 75 78
Vegetables & Preps. (mt) Tobacco, unmanufactured (mt) Cotton, unmanufactured (mt) Seeds (mt) Nursery stock & cut flowers 1/ Sugar, cane or beet (mt)	2,518 217 36 143 1,078	2,953 169 13 158 1,630	2.700 280 — 160	146 15 1 4 	168 13 3 8	1.593 611 9 153 419 372	1,959 521 8 187 466 620	1,900 500 200	142 48 1 11 48 38	154 40 1 11 57 51
Oilseeds & products (mt)	1.772	1.917	1,900	179	175	838	946	900	86	83
Oilseeds (mt) Protein meal (mt) Vegetable oils (ml)	208 253 1,311	424 359 1,133	Ξ	54 24 101	54 25 97	71 42 725	159 65 721	Ξ	18 4 64	17 4 61
Beverages excl. fruit juices (1,000 hectoliters) 1/ Coffee, test cocoa, spices (mt) Coffee, Incl. products (mt) Cocoa beans & Products (mt)	15,583 1,841 1,050 562	13.967 1,868 1,084 564	1.200 550	1.146 201 135 49	1.254 165 108 40	2,008 4,274 2,600 1,164	1.815 3.896 2,467 969	2,300 900	196 331 212 85	205 262 159 69
Rubber & allied gums (mt) Other	846	927	850	72	80	949 931	1.051 1.097	1,000	87 101	66 98
Total	_		_	_	_	21.014	21,479	21.000	1.824	1,851

[&]quot;Fiscal years begin Cct. 1 & end Sept. 30. Fiscal year 1989 began Cct. 1, 1998 & ended Sept. 30, 1989. 1/ Not included in total volume. 2/ Forecasts for footnoted items 2/-6/ are based on slightly different groups of commodities. Fiscal 1988 exports of categories used in the 1989 forecasts were 2/ 561,000 m , tons. 3/ 1.347 million dollars 4/ 12,743 million. 5/ 4,538 million, i.e. includes flour. 6/ 11 095 million m, tons. F = torscast. --- = not available.

Information contact: Stephen MacDonald (202) 786-1822

		Fiscal year	. 40	Oct	Nov	Change	from year"	earlier	Oct	Nov
Region & country	1986	1989	1990 F		1989	1988	1989	1990 F	1	989
			s	million			Percent		F	Percent
Western Europe European Community (EC-12) Belgium-Luxembourg France Germany, Fed. Rep. Italy Netherlands United Kingdom Portugal Spain, Incl. Canary Islands Other Western Europe Switzerland	8,053 7,536 429 563 1,315 713 2,103 818 340 848 516	7,087 6,558 431 474 918 603 1,847 736 307 876 510	6,600 6,100	785 726 63 58 114 47 196 78 31 95 59	779 737 70 33 162 85 159 73 24 80 42	12 11 14 4 -3 8 23 25 29 20 32	-12 -13 1 -16 -30 -18 -12 -10 -10 -13	-7 -8 0	12 13 26 37 25 -25 7 -21 14.1 48 10 33	-1 -1 38 -47 118 61 -40 -11 -3 -18 0
Eestern Europe German Dem. Rep. Poland Yugoslavia Romania	559 87 167 104 93	422 72 45 76 62	500	34 6 17 5	20 7 8 1 4	23 0 165 -21 -19	-24 8 -73 -26 -33	-25 	57 -10 220 230 -27	-50 1,818 41 -95 189
USSR	1,040	3,299	3.200	117	388	194	70	-3	-39	110
Asia West Asia (Mideast) Turkey iraq Israel Saudi Arabia South Asia Bangledesh India Pakistan China Japan Southeast Asia Indonesia Philippines Other East Asia Taiwan Korea, Rep. Hong Kong	15,944 1,904 120 735 334 464 805 107 354 276 613 7,274 1,022 245 3,326 1,577 2,259 488	18,685 2,270 238 791 285 482 1,371 213 243 609 1,494 8,152 974 218 344 4.823 1.594 2.453 575	18.200 2,200 900 500 	1,491 160 37 52 12 30 61 23 7 24 83 668 90 23 25 426 160 206 63	1.850 164 28 28 24 40 62 37 50 789 119 31 40 486 188 238 61	33 14 3 39 37 -5 133 -3. 281 181 161 31 44 61 33 24 16	17 19 97 8 -21 45 98 -31 121 144 12 -5 -12 0 7	-3 -4 -12 -0 	3 -5 1,101 -8 -35 -19 -58 -22 -86 -51 19 0 20 -9 -1 29 31 25 35	8 -3 263 -88 19 18 -46 -67 -74 -34 -23 3 97 269 67 31 21 38 41
Africa North Africa Morocco Algeria Egypt Sub-Sahara Nigeria Rep. S. Africa	2,272 1,659 193 537 786 613 44 85	2.281 1,798 218 549 955 483 30 57	2,300 1,800 600 900 500	208 170 6 40 113 38 2 2	175 143 22 34 87 32 3	27 30 -2 120 3 21 -35 74	0 9 12 2 21 -21 -31 -34	20 -10 0	13 38 -73 -11 119 -37 -55 +5	-0 -4 -11 -4 -25 63 -21
Latin America & Caribbean Brazil Caribbean Islands Central America Colombia Mexico Peru Venezuela	4,401 178 867 414 178 1,728 174 597	5,442 152 1,007 448 139 2,757 81 587	5,100 600 — 	530 14 93 30 21 317 17 21	452 13 86 48 20 215 33 21	17 -58 5 10 65 42 24 30	24 -13 16 8 -22 60 -54 -2	-6 0 -14 -17	-7 150 18 -26 -14 0 16 -67	2 68 5 44 86 3 258 -71
Canada	1,973	2,187	2,200	205	163	11	11	1.0	35	1
Oceania Total	237 35,379	268 39,651	300 38.00 0	22 3,392	27 3,654	.3 27	13 12	_4 -4	-12 3	-16 9
Developed Countries	17.905	18,000	17.500	1,689	1,763	19	1	-3	9	1.
Lees developed countries	14.362	16,436	15,600	1.468	1,433	25	14	-5	1	9
Centrally planned countries	3,111	5,215	4,900	234	458	131	68	-6	-18	58

[&]quot;Fiscal years begin Oct. 1 & end Sept. 30. Fiscal year 1989 began Oct. 1, 1986 & ended Sept. 30, 1989. F = forecast. — = not available. Note: Adjusted for transshipments through Canada.

Information contact: Stephen MacDonald (202) 786-1822.

Table 32.—Farm Income Statistics

						Calendar y	ear				
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 F	1990 F
						\$ billio	on				
Farm receipts Crops (incl. net CCC loans) Livestock Farm felated 1/	142 0	144.1	147.1	141.1	146.8	149.1	140.6	145.3	157.2	164	165 to 170
	71.7	72.5	72.3	67.1	69.5	74.3	64.0	63.8	72.6	75	77 to 80
	68.0	69.2	70.3	69.4	73.0	69.8	71.5	75.7	78.9	83	80 to 83
	2.3	2.6	4.5	4.5	4.4	5.0	5.1	5.8	5.7	6	5 to 7
Direct Government payments Cash payments Value of PIK commodities	1.3	1.9	3.5	9.3	8.4	7.7	11.8	18.7	14.5	"11-	8 to 11
	1.3	1.9	3.5	4.1	4.0	7.6	8.1	6.6	7.1	-10	7 to 9
	0.0	0.0	0.0	5.2	4.5	0.1	3.7	10.1	7.4	1	1 to 2
3. Total gross (arm income (4+5+6) 2/ 4. Gross cash income (1+2) 5. Nonmoney income 3/ 6. Value of inventory change	149.3	166.4	163.5	153 1	174.9	166.4	160.4	171.6	177.6	190	185 10 190
	143.3	146.0	150.6	150.4	155.2	156.9	152.5	182.0	171.6	174	173 to 178
	12.3	13.8	14.3	13.5	13.4	11.8	10.6	10.0	10.3	10	9 to 11
	-6.3	6.5	-1.4	-10.8	6.3	-2.4	-2.7	-0.4	-4.3	5	1 to 3
/. Cash expenses 4/	109.1	113.2	112.8	113.5	116.6	110.2	100.7	107.5	114.4	121	119 to 122
). Total expenses	133.1	139.4	140.0	140.4	142.7	134.0	122.4	128.0	135.0	141	139 to 142
9. Net cash income (4-7)	34.2	32.8	37.8	38.9	38.6	46.7	51.8	54.5	57.2	53	52 to 57
13. Net farm income (3-8)	16.1	26.9	23.5	12.7	32.2	32.4	38.0	43.8	42.7	48	44 to 49
Deflated (1982\$)	18.8	28.6	23.5	12.2	29.9	29.2	33.4	37.2	35.2	38	34 to 38
11. Off-farm income	34.7	35.8	36.4	37.0	38.9	42.6	44.6	46.8	51.7	54	55 to 59
12. Loan changes 5/: Real estate	9.9	9.1	3.8	2.3	-1.1	-6.0	-9.0	-7 5	-4.4	-2	0 to 3
13. 5/: Non-real estate	5.3	6.5	3.4	0.0	-0.8	-9.6	-11.0	-4.6	-0.3	0	=1 to 1
14. Rental income plus monetary change	6.1	6.4	6.3	5.3	8.9	8 8	7.8	6.B	8.5	B.	7 10 9
15. Capital expenditures 5/	18.0	16 8	13.3	12.7	12.5	9.2	8.5	9.8	10.2	11	11 to 13
16. Net cash flow (9+12+13+14-15)	37 6	37 8	38.1	32.7	33.1	30.7	31.2	39.4	50.8	48	50 to 58

1/ Income from machine hire, custom work, sales of forest products, & other miscellaneous cash sources. 2/ Numbers in parentheses indicate the combination of items required to celculate a given item. 3/ Value of home consumption of self-produced food & imputed gross rental value of farm dwellings. 4/ Excludes capital consumption, perquisites to hired labor, & farm household expenses. 5/ Excludes farm households. Totals may not add because of rounding. F = forecast. 1987 & 1988 expenses include preliminary revisions from the 1987 Cenaus of Agriculture.

Information contact: Diane Bertalsen (202) 786-1808.

Table 33.—Balance Sheet of the U.S. Farming Sector

					Calendar	year 1/ 2/					
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	19 9 0 F
						\$ billion					
Assets											
Real estate	782.4	784.7	748.8	738.7	637.7	555.9	507.3	577.0	607.9	648	675 to 685
Non-real estate	213.2	212.0	212.2	205.8	209.0	190.5	162.2	167.8	202.5	201	200 to 210
Livestock & poultry Machinery & motor	60 6	53.5	53.0	49.7	49.6	46.3	47.6	57.9	65.7	67	66 to 70
venicles	93.1	101.4	102.0	100.8	96.9	67.6	80.3	73.9	74.7	76	75 to 79
Crops stored 3/	33.0	29.1	27.7	23.9	29.7	23.6	19.1	20.9	26.2	22	19 to 23
Financial assets	26.5	26.0	29.5	31.3	32.8	33.0	35.2	35.2	35.9	36	36 to 38
Total farm assets	995.6	996.7	961.0	944.3	646.7	746.4	689.5	764.9	810.4	649	680 to 890
Liabilities											
Real estate debt 4/	89.6	98.7	102.5	104.6	103.6	97.6	88.6	61.1	76.7	75	73 to 77
Non-real estate debt 5/	77.1	83.6	87.0	87.9	87.1	77.5	66.6	62.0	81.7	81	60 to 64
Total farm debt	166.8	182.3	189.5	192.7	190.7	175.1	155.1	143.1	138.4	136	134 to 140
Total farm equity	828.9	814.4	771.5	751.6	656.0	571.3	534.4	621.8	672.0	713	740 to 750
						Percent					
Selected ratios											
Debt-to-assets	16.8	16.3	19.7		22.5	23.5	22.5	18.7	17.1	18	15 to 16
Debt-to-equity	20.1	22.4	24.6	20.4 25.6	29.1	30.6	29.0	23.0	20.6	19	18 to 19
Debt-to-net cash income	488	556	497	523	493	375	299	248	231	258	240 to 250
DODE TO HOLCASII III COITIS	400	330	487	223	493	3/3	200	240	231	230	2-70 (0 250

1/ As of Dec, 31, 2/ Estimates of farm assets and equity for 1987–1990 reflect revisions in real estate assets based on the 1987 Census of Agriculture. Revisions in real estate assets for 1983–1986 have not been completed. 3/ Non–CCC crops held on farms plus value above loan rates for crops held under CCC. 4/ Excludes debt on operator dwellings, but includes CCC storage and drying facilities loans. 5/ Excludes debt for nonfarm purposes. F = forecast.

Information contacts: Ken Erickson or Jim Ryan (202) 786-1798.

Table 34.—Cash Receipts from Farm Marketings, by State_

Region &		Livestock	& products				Crops 1/			Total 1/			
State	1987	1988	Oct 1989	Nov 1989	1987	1988	Oct 1989	Nov 1989	1987	1988	Oct 1989	Nov 1989	
						\$ million 2	y .						
North Atlantic Maine New Hampehire Vermont Massachusette Rhode Ielend Connecticut New York New Jersey Pennsylvania	228 67 377 121 13 191 1,809 195 2,310	216 80 352 105 13 180 1,781 192 2,348	18 5 34 8 1 15 170 16 220	19 5 34 9 1 16 176 16 220	184 72 45 259 64 194 800 438 904	188 77 53 297 65 202 824 450 935	18 6 3 33 4 16 80 36 88	24 7 12 48 4 15 68 38	412 139 422 379 77 385 2,610 633 3,213	404 137 405 402 78 382 2,805 642 3,284	38 11 37 42 5 31 250 52 308	42 12 45 57 5 31 244 55 327	
North Central Ohio Indiana Illinote Michigan Wisconsin Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	1.616 1.874 2.249 1.282 4.216 3.561 5,202 2.102 762 1.907 4.857 3.919	1,604 1,749 2,243 1,206 4,281 3,364 5,045 2,011 649 1,965 5,336 4,265	163 163 217 114 409 339 477 213 105 257 406 391	158 195 238 112 425 348 525 240 74 206 547 371	1,862 1,832 3,850 1,311 799 2,270 3,563 1,580 1,601 1,967 1,963	2.025 2.367 4.218 1.464 767 2.743 4.029 1.814 1.574 2.843 2.329	368 561 692 195 115 416 589 291 166 157 312 226	261 262 349 208 120 450 393 187 200 92 281 163	3.478 3,708 6.099 2.594 5,015 5.831 8.765 3.687 2,363 2,726 6.824 5.882	3.629 4.117 5.461 2.670 5.048 6.107 9.074 3.826 2.423 2.911 7.979 6.594	531 723 910 310 523 755 1.068 504 271 414 717 617	420 457 587 517 545 799 918 427 275 298 534	
Southern Delaware Maryland Virginia West Virginia North Carolina South Carolina Georgia Florida Kentucky Tennessee Alabama Mississippi Arkansas Louisiana Oklahoma Texas	370 734 1.275 174 2.111 450 1.825 1.080 1.557 1.110 1.521 1.042 2.083 511 2.066 6.092	444 768 1,294 179 2,179 488 2,011 1,114 1,538 1,080 1,095 1,176 2,278 567 2,224 6,498	36 66 180 193 50 170 107 109 112 150 110 199 53 273 730	36 63 127 216 47 169 105 272 90 133 89 183 58 189 592	116 405 484 60 1.658 940 1.299 4.368 940 633 945 1.112 985 811 2.907	149 459 592 70 1,994 590 1,553 4,697 992 985 708 1,164 1,696 1,299 1,127 3,783	32 69 114 5 520 420 204 86 152 185 199 391 209 90 412	20 61 84 8 200 77 202 243 326 97 265 339 283 883 895	487 1,140 1,759 234 3,768 923 3,124 5,454 2,458 1,984 2,154 1,987 3,195 1,476 2,877 8,098	592 1,226 1,688 4,173 1,078 3,544 5,811 2,046 2,404 2,404 1,865 3,410 10,281	68 134 294 25 712 137 590 311 197 264 335 309 262 363 1,142	55 124 212 416 123 370 348 598 230 354 522 341 275 987	
Western Montana Idaho Wyoming Coloredo New Mexico Arizona Utah Nevada Washington Oregon California Alaeka Hawali	747 924 528 2.323 617 773 466 164 981 655 4.420	816 1,033 575 2,655 910 793 537 150 1,141 669 4,704 10 89	154 102 102 207 100 63 73 16 115 72 458	118 102 72 257 123 66 48 9 109 71 490	608 1.164 127 885 351 987 134 69 1.880 1.236 11.382 19	570 1,258 156 1,037 362 1,167 150 79 2,146 1,427 11,894 20 479	64 252 9 127 49 99 15 9 265 183 1.601	87 238 40 140 54 168 14 10 188 138 1.535 2	1,355 2,089 655 3,207 1,168 1,760 600 232 2,862 1,890 15,808 30 560	1.386 2.291 3.692 1.272 1.959 687 229 3.287 2.096 16,598 30 668	218 354 171 424 155 163 88 25 380 255 2,058 3	205 338 112 398 177 232 62 20 298 209 2.025 3 46	
United States	75.717	78,862	7.925	7.791	63.751	72,569	10.264	8,825	139,468	151,431	18,190	16,615	

^{1/} Sales of farm Products include receipts from commodities placed under CCC loans minus value of redemptions during the period. 2/ Estimates as of end of current month. Totals may not add because of rounding.

Information contact: Roger Strickland (202) 786-1804.

March: 1998 ______

Table 35.—Cash Receipts from Farming

		Annual					1988			1989		
	1983	1984	1985	1966	1987	1988	Nov	July	Aug	Sept.	Oct	Nov
							\$ million					
Farm marketings & GCC loans	138,587	142,439	144.135	135,539	139,468	151,431	15,232	11,662	12.210	14,708	18,190	16.615
Livestock & products Meat animals Darry products Poultry & eggs Other	69.438 38.893 18.763 9.981 1.801	72,968 40,832 17,944 12,223 1,969	89.845 38.589 18.063 11.211 1.982	71,534 39,122 17,753 12,661 1,897	75.717 44.276 17.710 11.480 2.252	78.862 45,975 17.668 12.864 2.354	7,180 4,103 1,522 1,242 313	6.479 3.281 1.537 1,277 383	6,740 3,859 1,569 1,152 161	7.084 4.050 1.566 1.259 209	7,925 4,937 1,683 1,153 152	7,791 4,491 1,770 1,219 311
Grops Food grains Feed crops Cotton (lint & seed) Tobacco Oil-bearing crops Vegetables & meions Fruits & tree nuts Other	67,129 9,713 15,535 3,705 2,752 13,546 8,459 6,056 7,365	69,471 9,740 15,668 3,674 2,813 13,641 9,138 6,733 8,065	74.290 8.993 22.520 3.687 2.722 12.474 8.558 6.957 8.381	64,005 5,638 17,161 3,806 1,818 10,671 8,820 7,246 8,041	63,751 5,581 13,102 4,087 1,827 11,159 9,718 8,257 10,020	72.569 7.700 15.291 4.668 2,039 13.699 9.819 8.877 10.470	8.052 522 1,597 873 308 1,644 551 1,110 1,445	5,183 1,107 1,232 109 19 428 754 917 617	5.470 870 1,302 85 510 419 1.027 648 609	7,625 779 1,634 466 529 1,120 1,206 970 921	10.264 740 2.258 788 432 2.982 1,133 1.035 897	8.826 661 1.847 1.115 375 1.713 608 1.053 1.453
Government payments Total	9.295 145.862	8,430 150,869	7.704 151.839	11.813 147,352	1 6,7 47 1 56,2 15	14,480 16 5,9 11	513 15,745	238 11,900	95 12.305	220 14.928	957 19.147	924 17.539

^{*}Receipts from loans represent value of commodities placed under CCC loans minus value of red. .nptions during the month.

Information contact: Roger Strickland (202) 788-1804.

Table 36.—Farm Production Expenses

					Cale	indar year						
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 F	16	990 F
						\$ million						
Feed Livestock Seed F&rm-origin inputs	20,971 10,670 3,220 34,861	20.855 8,999 3,428 33.282	18.592 9.684 3.172 31,448	21,725 8.814 2,993 33,532	19.852 9,498 3,448 32,798	18,015 8,958 3,350 30,323	16.179 9,744 2,984 28,907	18,898 11,845 3,009 33,752	22,462 12,812 3,138 38,412	24,000 13,000 4,000 41,000	18,000 12,000 3,000 36,000	to 15.000 to 5,000
Fertifizer Fuels & olls Electricity Pesticides Manufactured Inputs	9,491 7,879 1,526 3,539 22,435	9,409 8,570 1,747 4,201 23,927	8,018 7,888 2,041 4,282 22,229	7.067 7,503 2,146 4,154 20.870	7,429 7,143 2,166 4,767 21,505	7.258 6,584 2,150 4.994 20,986	5,787 4,7 90 1,942 4,484 17,003	6,210 5,042 2,393 4,588 18,233	7,000 5,144 2,572 4,716 19,432	8.000 6,000 3,000 5,000 22,000	7,000 5,000 2,000 5,000 21,000	to 7,000 to 3,000
Short-term interest Real estate interest 1/ Total interest charges	8.717 7,544 16,261	10.722 9.142 19,664	11,349 10,481 21,830	10,615 10,815 21,430	10,396 10,733 21,129	8,921 9,878 18,699	7,795 9.131 16,926	7,305 8,187 15,492	7,287 7,885 15,172	8.000 7,000 15,000	7,000 6,000 14,000	to 9.000 to 8,000 to 16.000
Repair & maintenance 1/2/ Contract & hired labor Machine hire & custom work	7,075 9,293 1,823	7,021 8,931 1,984	5,428 10.075 2,025	6.529 9,725 1,896	6,416 9,729 2,170	6,370 9,799 2,184	6.426 9,890 1.810	6,546 10,821 1,956	6.858 11.202 2,171	7,000 11,000 2,000		to 8,000 to 12,000 to 3,000
Marketing, storage, & transportation Misc, operating expenses 1/ Other operating expenses	3,070 6,881 28,142	3,523 6,909 28,368	4.301 7,262 30,08 <i>9</i>	3,904 9,089 31,143	4,012 9,108 31,433	4,127 8,232 30,712	3,852 7,993 29,771	3.823 8.306 31,452	3.279 8,809 32.319	4,000 9,000 34,000	4,000 8,000 33,000	
Capital consumption 1/ Faxes 1/	21.474 3.891	23.573 4,246	24,287 4,036	23,873 4,469	23.105 4.059	20.847 4,231	18.91 8 4,125	17,684 4,345	17.722 4,37 8	18,000 4,000	17,000 4.000	
Net rant to nonoperator landlord Other overhead axpenses	6. 075 31.440	6.184 34,003	6,059 34,381	5,060 33,402	8,640 35,804	8,158 33,236	6,737 29,780	7,060 29,069	7.527 29,627	8,000 30,000	8,000 30,000	
Total production expenses	133,139	139,444	139,980	140,377	142.669	133,956	122.387	127,998	134.963	141,000	139,000	to 142.00

^{1/} Includes operator dwellings. 2/ Beginning in 1982, miscellaneous operating expenses include other fivestock purchases & dairy assessments. Totals may not add because of rounding. F = forecast. 1987 and 1988 expenses include preliminary revisions from the Census of Agriculture.

Information contacts: Chris McGath (202) 786-1804, Diane Bertelsen (202) 786-1808.

	Fiscal year												
	1981	1982	1983	1984	1985	1986	1987	1988	1989 E	1990 E	1991 E		
						\$ million							
COMMODITY/PROGRAM						10011	10.007		2.004	4.070			
Feed grains Wheat	-533 1,543	5.397 2.238	6.815 3.419	-758 2.536	5.211 4.691	12,211 3,440	13,967 2,836	9,053 678	3,384 53	4,270 522	6,099 2,061		
Rice	24	164	664	333	990	947	908	128	631	616	673		
Upland cotton	336	1,190	1.363	244	1.553	2,142	1,786	666	1,461	-242	710		
Tobacco	-51	103	880	346	455	253	-348	-453	-367	-307	-138		
Dairy	1,894	2,182	2,528	1,502	2,085	2.337	1,166	1,295	879 –88	483 236	617 62		
Soybeans Peanuts	87 28	169 12	288 -6	-585 1	711 12	1,597 32	-476 8	-1,676 7	13	-6	3		
	*-		_				_	•					
Sugar	-121	-5	49	10	184	214	-65	-246 100	-25 42	0 69	0 44		
Honey Wool	8 42	27 54	48 94	90 132	81 109	89 123	73 152	1/ 5	93	121	120		
Operating superson 8/	159	294	328	362	348	457	535	614	820	626	633		
Operating expense 2/ Interest expenditure	220	-13	3,525	1.064	1,435	1.411	1.219	395	65	609	262		
Export programs 4/	-940	65	398	743	134	102	276	200	-102	102	67		
1989/89 Disaster/													
Livestock Assistance	0	0	0	0	0	0	0	0	3,919	2/96	0		
Other	1,340	-225	-1542	1,295	-314	488	371	1,895	143	979	536		
Total	4,036	11,652	18.851	7,315	17.683	25.841	22,408	12,461	10,523	8,174	11,739		
FUNCTION													
Price-support loans (net)	174	7,015	8.438	-27	6,272	13,628	12.199	4.579	-926	431	704		
Direct payments Deficiency	0	1.185	2,780	612	6.302	6.166	4.833	3.971	5,798	4.520	8,445		
Diversion	ŏ	0	705	1.504	1.525	64	382	8	-1	9.520	0.770		
Dairy termination	Ö	ō.	0	Ó	0	489	587	260	168	178	106		
Other	0	0	0	0	0	27	60	0	42	4	6		
Disaster	1,030	306	115	0.447	0	0.740	0	6 4,245	4	4 700	8,557		
Total direct payments	1,030	1,491	3,600	2,117	7.827	6.7 46	5.862		6.011	4.702			
1988/89 Crop disaster Emergency livestock/	0	0	0	0	0	0	0	0	3.386	2/ 6	0		
forage assistance	329	16	0	0	0	0	0	31	533	90	0		
Purchases (net)	1.602	2.031	2.540	1.470	1.331	1,870	-479	-1,131	118	-87	238		
Producer storage													
payments	32	679	964	268	329	485	832	658	174	127	70		
Processing, storage.	323	355	665	639	657	1.013	1.659	1.113	659	465	490		
& transportation	323	333	003	038	637	1.013	1,038	1,113	039	400	450		
Operating expense 3/	159	294	328	362	346	457	535	614	620	626	633		
Interest expenditure	220	-13	3.525	1.064	1.435	1,411	1,219	395	85	609	262		
Export programs 4/	-940	65	398	743	134	102	27 6 305	200 1,757	-102 -13	102 1,103	67 718		
Other	1.107	-281	-1,607	679	-648	329	305	1,757	-13	1,103	/ 10		
Total	4,036	11,652	18,851	7.315	17,683	25.841	22,408	12.461	10.523	8.174	11,739		

^{1/} Fiscal 1988 wool & mohair program outlays were \$130,635,000 but include a one-time advance appropriation of \$126,108,000, which was recorded as a wool program receipt by Treasury. 2/ Benefits to farmers under the Disaster Assistance Act of 1989 are being paid in generic certificates & are not recorded directly as disaster assistance outlays. 3/ Does not include CCC Transfers to General Sales Manager. 4/ Includes Export Guarantee Program, Direct Export Credit Program, & CCC Transfers to the General Sales Manager. E = Estimated in the fiscal 1991 President's Budget Minus (-) indicates a net receipt (excess of repayments or other receipts over gross outlays of funds).

Information contact: Richard Pazdalski (202) 447-5148.

Table 38.—Food Expenditure Estimates_

		Annual			1989		1989 year-to-date		
	1986	1987	1988	Oct	Nov P	Dec P	Oct	Nov P	Dec P
					\$ billion				
Sales 1/									
Off-premise use 2/ Meals & snacks 3/	237.1 158.5	245.5 174.8	257.8 187.4	22.7 16.6	23.0 15.9	25.5 16.6	227.1 163.6	250.1 179.5	275.6 196.1
					1988 \$ billio	อก			
Sales 1/									
Off-premise use 2/	257.7	255.9	257.8	21.1	21.3	23.5	213.7	235.1	258.6
Meals & snacks 3/	171.6	181.9	187.4	15.7	14.9	15.6	157.0	171.9	187.5
				Percent cha	inge from yea	ar earlier (\$ bi	l.)		
Sales 1/					,	•	•		
Off-premise use 2/	3.3	3.6	5.0	4.5	6.7	6.4	7.0	7.0	6.9
Meals & snacks 3/	6.9	10.2	7.2	2.0	3.0	1.1	5.2	5.0	4.7
			Pe	rcent chan	ge from year	earlier (1988 :	(.lid 8		
Sales 1/									
Off-premise use 2/	0.4	-0.7	0.7	8.0-	0.7	0.2	0.3	0.3	0.3
Meals & snacks 3/	2.9	6.0	3.0	-2 5	-1.6	-3.3	0.6	0.4	0.1

^{1/} Food only (excludes alcoholic beverages). Not seasonally adjusted. 2/ Excludes donations & home production. 3/ Excludes donations, child nutrition subsidies, & meals furnished to employees, patients, & inmates. P = preliminary.

NOTE: This table differs from Personal Consumption Expanditures (PCE), table 2, for several reasons: (1) this series includes only food, not alcoholic beverages & pet food, which are included in PCE: (2) this series is not seasonally adjusted, whereas PCE is seasonally adjusted at annual rates; (3) this series reports sales only, but PCE includes food produced & consumed on farms & food furnished to employees; (4) this series includes all sales of meals & snacks. PCE includes only purchases using personal funds, excluding business travel & entertainment. For a more complete discussion of the differences, see "Developing an Integrated Information System for the Food Sector," Agr.-Econ. Rpt. No. 575, Aug. 1987.

Information contact: Alden Marichester (202) 786-1880

Transportation

Table 39.—Rail Rates; Grain & Fruit/Vegetable Shipments

	Annual			1988						
	1987	1988	1989	Dec	July	Aug	Sept	Oct	Nov	Deĉ
Rail freight rate index 1/										
(Dec. 1984=100)										
All products	100.1	104.8	106.4	105.4	106.9	106.8	108.7 P	106.7 P	t08.9 P	106.9 P
Farm products	99,3	105.8	108.4	108.0	108.2	108 2	108.2 P	108.2 P	108.4 P	108.5 P
Grain	98.7	105.4	108.7	108.2	108.4	108.4	108.4 P	108.4 P	108.7 P	108.7 P
Food products	98.6	103.2	103.9	103.6	104.2	104.1	104.1 P	104.1 P	104.1 P	104.3 P
Grain shipments										
Rail carloadings (1,000 care) 2/	29.0	30.7	00.4	07.4	05.00	25,9 P	0440	28.9 P	31.7 P	00.40
Fresh fruit & vegetable shipments	28.0	30.7	28.4	27.1	25.0 P	25.8 P	24.4 P	20.8 P	31.7 P	29.4 P
Piggy back (1,000 cwt) 3/ 4/	588	535	504	441	603	454	482	408	440	459
Rail (1,000 cwt) 3/ 4/	630	607	504 588	873	521	215	415	472	584	725
Truck (1,000 cwt) 3/ 4/	9137	9,679			9.762			9.040	9,425	
11 dok (11000 pm) or 4	8137	8,078	9.667	9.528	8,702	8.863	8.281	8.040	8,423	9.278
Cost of operating trucks										
hauling produce 5/										
Owner operator (cts./mile)	116.3	118.7	124.1	120.4	123.4	123.4	124.3	125.5	128.2	128.9
Fleet operation (cts./mile)	118.5	118.4	123.4	120.1	122.9	122.6	123.4	124.5	125.5	128.7
	110.0	1 10.4	12.0.4	120.1	122.0	122.0	120.4	127.0	120.0	120.7

^{1/} Department of Labor, Bureau of Labor Statistics. 2/ Weekly average; from Association of American Railroads. 3/ Weekly average; from Agricultural Marketing Service, USDA. 4/ Pretiminary data for 1988 & 1989. 5/ Office of Transportation, USDA. P = preliminary.

Information contact. T.Q. Hutchinson (202) 786-1840.

Indicators of Farm Productivity

Table 40.—Indexes of Farm Production, Input Use, & Productivity¹

	1980	1981	1982	1983	1984	1985	1986	1987	1988 2/	1989 2/
					1	977=100				
Farm output	104	118	116	96	112	118	111	110	102	111
All livestock products 3/	108	109	107	109	107	110	110	113	116	118
Meat animate	107	108	101	104	101	102	100	102	104	103
Dairy products	105	108	110	114	110	117	116	116	118	118
Poultry & eggs	115	119	119	120	123	128	133	144	150	156
All crops 4/	101	117	117	88	111	118	109	108	92	103
Feed grains	97	121	122	67	116	134	123	105	73	108
Hay & forage	98	106	109	100	107	108	106	103	90	100
Food grains	121	144	138	117	129	121	106	107	98	107
Sugar crops	97	107	96	93	95	97	106	112	107	106
Cotton	79	109	85	55	91	94	69	103	108	85
Tobacco	93	108	104	75	90	81	63	62	71	74
Oil crops	99	114	121	91	106	1175	110	107	88	107
Cropland used for crops	101	102	101	88	99	98	94	88	87	90
Crop production per acre	100	115	116	100	112	120	118	122	106	114
Farm input 5/	103	102	99	97	95	92	87	86	85	_
Farm real estate	103	104	102	101	97	95	93	92	91	_
Mechanical power & machinery	101	98	92	88	84	90	75	72	71	_
Agricultural chemicals	123	129	118	105	121	123	110	111	113	
Feed, seed, & livestock										
purchases	114	108	108	1,10	106	106	103	กไว้ไ	107	
Ferm output per unit of Input	101	116	117	99	179	.128	127	128	120	-
Output per hour of labor										
Farm 6/	109	123	125	99	121	139	139	142	134	_
Nonfarm 7/	99	100	99	102	10.5	106	108	109	111	-

^{1/} For historical data & Indexes, see Economic Indicators of the Farm Sector: Production & Efficiency Statistics, 1988, ECIFS 5–6. 2/ Preliminary indexes for 1988 based on Crop Production: 1988 Summary, released in January 1989, & unpublished data from the Agricultural Statistics Board, NASS. 3/ Gross livestock production includes minor livestock products not included in the separate groups shown. It cannot be added to gross crop production to compute farm output. 4/ Gross crop production includes some miscellaneous crops not in the separate groups shown. It cannot be added to gross livestock production to compute farm output. 5/ Includer other items not included in the separate groups shown. B/ Economic Research Service. 7/ Bureau of Labor Statistics. — = not available.

information contact: Jim Hauver (202) 786-1459.

Food Supply and Use

Table 41.—Per Capita Consumption of Major Food Commodities 1_

(See the January-February 1990 issue.)

Information contact: Judy Putnam (202) 786-1870.

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